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Attorneys for Plaintiff Gemini II Ltd.

UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

GEMINI II LTD.,

08 Civ. <u>6334</u> () (

Plaintiff,

- against -

COMPLAINT FOR INJUNCTION IN
AID OF ARBITRATION

DERECKTOR SHIPYARDS CONN., LLC,

Defendant.

Plaintiff, Gemini II Ltd. ("Gemini"), by and through its attorneys Holland & Knight LLP, as and for its Complaint against defendant, Derecktor Shipyards Conn., LLC ("Derecktor"), upon information and belief, alleges as follows:

THE PARTIES

- 1. Gemini II Ltd. is a Cayman Islands exempted company whose business address is Cayman Business Park, A7, P.O. Box 10300 APO, Grand Cayman Islands.
- 2. Gemini is entity established for the purpose of building, owning and chartering the 145 foot sailing catamaran, the vessel that is the subject of this Complaint.

- 3. Upon information and belief, Derecktor Shipyards Conn., LLC is a limited liability company that is duly organized and existing under the laws of Delaware whose business address is 837 Seaview Avenue, Bridgeport, Connecticut 06607.
- 4. Gemini and Derecktor are parties to a contract wherein Gemini agreed to construct and deliver and Gemini agreed to purchase a unique, one-of-a-kind luxury catamaran sailing vessel for a fixed price of \$27,094,098.00. Pursuant to this contract, Gemini has paid more than 20 million dollars to Derecktor and its subcontractors. The vessel remains approximately 25% percent incomplete.

NATURE OF COMPLAINT

5. Gemini seeks injunctive relief in aid of arbitration, to wit, an order of the Court preventing continued, on-going, and future harm resulting from Derecktor's breach of contract, pending the resolution of the parties' contract dispute before an arbitrator.

JURISDICTION AND VENUE

- 6. This Court has jurisdiction over this action pursuant to 28 U.S.C. § 1332. Complete diversity of citizenship exists since this action involves a dispute between citizens of different States and the amount in controversy exceeds \$75,000, exclusive of interest and costs.
- 7. This Court has personal jurisdiction over defendant Derecktor because Derecktor consented to jurisdiction in New York State in the Vessel Construction Agreement at issue in this matter.
- 8. Venue is properly based in this District pursuant to 28 U.S.C. § 1391 in that defendant Derecktor has consented to the venue of this action in this Court in the Vessel Construction Agreement at issue in this matter.

THE VESSEL CONSTRUCTION CONTRACT

- 9. On or about June 13, 2005, Gemini entered into a Vessel Construction Agreement with Derecktor (hereinafter, the "Contract"). A copy of the Contract with amendments, but without exhibits is attached to this Complaint as Exhibit A.
- 10. Pursuant to the terms of the Contract, in consideration of \$27,094,498, Derecktor agreed to construct a 145 foot sailing catamaran (hereinafter, the "Vessel").
- 11. Derecktor further agreed to use "the best yacht building practices, best workmanship and finest quality materials" in the construction of the Vessel.
- 12. In the Contract, Derecktor agreed to deliver the Vessel by November 30, 2007, unless that date was adjusted pursuant to Change Orders agreed to by Gemini. No such Change Order was ever agreed to by Gemini.
- 13. Pursuant to Article 21 of the Contract, Derecktor would be deemed to be in default upon the occurrence of any of the following:
 - a. it suspends or ceases construction of the Vessel for more than thirty (30) days
 without any entitlement to do so under the contract;
 - b. it refuses or persistently neglects to comply with any reasonable written notice or reasonable instruction that Gemini is entitled to give under the Contract;
 - c. it is in material breach of a term of the Contract for more than thirty (30) days after written notice requesting that the breach be remedied;
 - d. it fails to complete the vessel within 120 days after the delivery date (in which case there would be no opportunity to cure provided by the Contract);
 - e. it defaults, terminates, or fails to renew lease for the Builder's Shipyard;
 - f. it becomes insolvent or bankrupt or goes into liquidation.

EVENTS OF DEFAULT

14. On several occasions, Derecktor has materially and substantially breached the terms of the Contract and has been (and continues to be) in default under the terms of the Contract.

Failure To Deliver On Time

- 15. To date, Derecktor has not delivered the Vessel and, further, Derecktor has notified Gemini that it has not scheduled the Vessel for completion until June or July of 2009, over one and a half years after the delivery date.
- Derecktor has notified Gemini that Derecktor is having financial difficulties and 16. may not survive if it cannot obtain an adjustment of the Contract by significantly increasing the fixed price, changing the contract from a fixed price contract to a time and materials contract, and accepting all change orders despite Gemini's objection to a number of the change orders.
- On or about June 13, 2008, Derecktor advised Gemini that it has redirected its 17. resources and has effectively stopped work on the construction of the Vessel except as may be necessary for the movement of the Vessel.

Failure to Maintain Proper Insurance (Article 22)

- Under Article 22, Derecktor is required to keep the Vessel, Equipment and Owner 18. Supplied Items fully insured for their full replacement value under insurance policies and to furnish to Gemini copies of such policies from time to time in effect.
- 19. Derecktor has breached the contract by refusing Gemini's reasonable request to inspect the insurance policies, although it is Gemini's right to do so under the Contract.

Failure To Pay Subcontractor Invoices (Section 8.2)

Under Section 8.2 of the Contract, Derecktor is required to pay when due all 20. invoices, charges or claims due for labor, services, materials, Equipment, and supplies furnished for the work done under the Contract by any and all persons and entities for which it is Builder's obligation to pay under the Contract, including Builder's Subcontractors.

21. Derecktor failed to honor its obligation to pay its invoices, charges and claims in a timely manner.

Failure to Employ Best Yacht Building Practices and Best Construction Practices (Contract Recitals and Article 7)

- 22. Under the opening recitals of the Contact, Derecktor was required to use the "best yacht building practices" in building, constructing, equipping and completing the Vessel. Article 7 of the Contract, incorporates the specifications and standards required in building the Vessel, which requires Derecktor, under Section 01.05, requires Builder (i.e. Derecktor) to "guarantee skilled workmanship, in keeping with the best yacht construction practice, and in conformity with the plans and specifications as approved in writing " A copy of Exhibit A, Specifications, is attached to this Complaint as Exhibit B.
- 23. Derecktor failed to maintain the best yacht building practices and best construction practices as required by recitals and Article 7 of the Contract.

Failure To Effectively Monitor Weight (Section 8.6)

- 24. Under Section 8.6 of the Contract, Derecktor is required to institute and maintain an effective weight monitoring and control program as required, so that the Vessel will not exceed the Adjusted Guaranteed Weight determined in accordance with Section 19.2 a)(i) of the Contract.
- 25. Derecktor has failed to institute and maintain the necessary weight monitoring program.

Failure To Comply With the Change Order Procedures (Article 11(f))

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- 26. Under Article 11(f) of the Contract, Derecktor is required to comply with the Change Order procedures.
- 27. Derecktor failed to timely prepare quotations or proposed Change Orders before commencing the associated work, priced the Change Orders contrary to the contractually provided methodology for pricing, and claimed extensions of the Delivery Date that did not in fact represent construction delays caused by the Change Orders.

Failure To Employ Best Shipyard Practices: Moving Vessel to Unsafe, Unsecured Storage

- 28. Under the opening recitals of the Contact, Derecktor was required to use the "best yacht building practices" in building, constructing, equipping and completing the Vessel. Article 7 of the Contract, incorporates the specifications and standards required in building the Vessel, which requires Derecktor, under Section 01.05, requires Builder (i.e. Derecktor) to "guarantee skilled workmanship, in keeping with the best yacht construction practice, and in conformity with the plans and specifications as approved in writing"
- 29. Derecktor, in violation of the initial paragraph of the Contract and section 01.05 and "best yacht construction practices" breached the contract by moving the Vessel from the building in which the Vessel has been constructed to a structure made of stacked shipping containers and corrugated metal (the "Shipping Container Shed").
- 30. The Shipping Container Shed, is not fully enclosed, is not secure, does not have necessary electrical power or water, is not climate controlled or heated, does not have insulated walls or roof, does not have mezzanines for work space and access to the Vessel, and does not have heavy lift capacity.

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- 31. Derecktor refused Gemini's reasonable request to inspect the Certificate of Occupancy for the Shipping Container Shed. Upon information and belief, the Shipping Container Shed does not have a Certificate of Occupancy, and the Bridgeport Building Department has not issued Building, plumbing, electrical or mechanical permits fort he Shipping Container Shed.
- 32. The Shipping Container Shed is entirely unfit for a 27 million dollar luxury catamaran and does not meet the standard of best shippard practices or yacht building standards to which Derecktor is contractually bound to meet in its performance of the Contract.
- 33. As such, the move to the Shipping Container Shed constitutes an egregious breach of the standards expressly required by the Contract.

Bad Faith Negotiations

- 34. Derecktor first advised Gemini of its intention to move the vessel to the Shipping Container Shed in June 2008, later identifying July 12, 2008 as the day for the move.
- 35. Derecktor has explained that is moving the Vessel because it would prefer to make room at the Builder's Shipyard for another vessel under contract to a third-party so that it may obtain payments pursuant to that third party contract, despite is prior and unfulfilled contractual commitments to Gemini.
- 36. Gemini objected to the move and, on July 11, 2008, advised Derecktor that it would be seeking a temporary restraining order to prevent the move.
- 37. On July 11, 2008, Derecktor verbally advised Gemini that it would not be moving the Vessel into the Shipping Container Shed until it could secure a Certificate of Occupancy for the structure. Derecktor then advised in writing that it would not move the Vessel from its then-current location for at least one week in consideration for Gemini's agreement to not file the application for a temporary restraining order.

38. Despite this forbearance agreement, Derecktor, in bad faith, moved the Vessel from the structure in which it has been constructed to the Shipping Container Shed.

NOTICES OF DEFAULT AND COMMENCEMENT OF ARBITRATION

- 39. By letters dated January 11, 2008 and July 10, 2008, and July 14, 2008, Gemini gave notice to Derecktor of Derecktor's defaults under the Contract. A copy of the January 11, 2008 Notice of Default is submitted herewith as Exhibit C and a copy of the July 10, 2008 Notice of Default is submitted herewith as Exhibit D, and a copy of the July 14, 2008 Notice of Defaults is annexed hereto as Exhibit E.
- 40. As a result, Gemini has commenced an arbitration proceeding pursuant to the Society of Maritime Arbitrators, in accordance with Article 27 of the Contract.
- 41. Gemini now applies to this Court for injunctive relief in aid of arbitration, to prevent any continuing or future harm pending a final judgment from the contractually agreed upon arbitration proceeding.

FIRST CLAIM: INJUNCTION DIRECTING CONTINUED PERFORMANCE PENDING ARBITRATION

- 42. Gemini repeats and realleges each and every allegation contained within paragraphs 1 through 41 inclusive of this Complaint with the same force and effect as if set forth at length herein.
- 43. The Contract is a valid, binding and enforceable contractual agreement between Gemini and Derecktor.
- 44. Gemini has fully performed all of its obligations to Derecktor under the terms of the Lease.
- 45. To the extent that any obligations were not performed by Gemini, such obligations were excused by Derecktor's breach of the Contract.

- 46. Derecktor's failure to perform the Contract constitutes a breach for which Gemini is seeking relief in the form of damages and an injunction in an arbitral forum.
- 47. Derecktor's statement that it is discontinuing work and its discontinuance of work on the Vessel constitute additional breaches of the contract which result in harm for which Gemini will have no adequate remedy at law against Derecktor in view of (a) Derecktor's precarious financial condition, and (b) Gemini's continued costs and loss of opportunity by being denied use of its Vessel, which is a unique, one-of-a-kind dual hull catamaran sailing vessel.
- 48. By contrast, Derecktor will not suffer any legally cognizable harm if it is directed to comply with its contractual obligation to use best yacht building practices, place the Vessel in a building that is properly permitted, and continue full time construction of the Vessel.
- 49. Derecktor has provided no valid justification for its cessation of construction activities or for its movement of the Vessel to a shed that is not properly permitted under State law, and lacks utilities, accommodations, and heavy lifting capacity.
- 50. Derecktor is in flagrant violation of several express contractual obligation with no valid excuse for non-performance.
- 51. Under these circumstances, Gemini has a very high likelihood of success on the merits of its action, and therefore Derecktor should be directed to continue construction on the Vessel pending a final order from the Arbitration Panel.

SECOND CLAIM: INJUNCTION DIRECTING THE RETURN OF THE VESSEL PENDING ARBITRATION

52. Gemini repeats and realleges each and every allegation contained within paragraphs 1 through 51 inclusive of this Complaint with the same force and effect as if set forth at length herein.

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- 53. Gemini will be irreparably harmed if Derecktor holds the partially completed Vessel in a Shipping Container Shed, because Gemini will have no adequate remedy at law against Derecktor in view of (a) Derecktor's precarious financial condition, and (b) Gemini's continued costs and loss of opportunity by being denied use of its Vessel, which is a unique, one-of-a-kind dual hull catamaran sailing vessel.
- 54. By contrast, Derecktor will not suffer any legally cognizable harm if it is directed to return to the Vessel to the building in which it was housed prior to this past weekend.
 - 55. Derecktor has provided no valid justification for the movement of the Vessel.
- 56. Derecktor is in flagrant violation of several express contractual obligation with no valid excuse for non-performance.
- 57. Under these circumstances, Gemini has a very high likelihood of success on the merits of its action, and therefore Derecktor should be directed to return the Vessel to the building in which it was housed prior to this past weekend, pending a final order from the Arbitration Panel.

WHEREFORE, plaintiff, Gemini II Ltd, demands an injunction order in aid arbitration, to be effective pending the final judgment of a third-party arbitrator concerning the merits of the underlying breach of contract claim, as follows:

- directing Derecktor to return the catamaran sailing yacht bearing Builder's Hull No. 85135 (the "Vessel") to the new building at Derecktor's Shipyard located in Bridgeport, Connecticut where it had been located prior to its removal therefrom on or about July 12, 2008;
- directing Derecktor to continue construction of the Vessel pursuant to the Vessel
 Construction Agreement between Gemini and Derecktor dated as of June 30, 2005
 ("Contract");

3. directing expedited discovery, to which Derecktor shall respond within one day of the Order, requiring Derecktor to produce the following documents:

Document 1

- a. last audited and unaudited balance sheet, income statement, cash flow
- statement, and 2008 cash flow projections, budgets/forecasts, capital expenditures, and general ledger (in electronic form);
- b. work papers and reports of the consultant Jeff Goldstein;
- c. 2007 tax return with corporate balance sheet;
- d. documents and communications with the Bridgeport Building Department regarding the Shipping Container Shed;
- e. documents and communications with the insurers and broker and their representatives removing the vessel into the Shipping Container Shed and coverage for storage in the building;
- f. copies of all current insurance policies and endorsements related to the Vessel; and
- 4. ordering such other further relief in aid of arbitration as this Court deems appropriate.

HOLLAND & KI

By:

Dated: New York, New York July 14, 2008

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	Plaintiff,	
- against -		
DERECKTOR SHIPYARDS CONN.,	LLC.	

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EXHIBITS TO COMPLAINT PART 1

EXHIBIT A

VESSEL CONSTRUCTION AGREEMENT

Between

DERECKTOR SHIPYARDS CONN., LLC

ឧសជ

GEMINI II LTD.

FOR THE CONSTRUCTION OF A

145' SAILING CATAMARAN

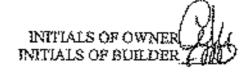


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EXHIBIT H: Construction Schedule

EXHIBIT I: Foun of Milestone Certificate

EXHIBIT J: Form of Escrow Agreement for the Warranty Guarantee Account

EXHIBIT K: Cost Allowance Items and total Cost Allowance
EXHIBIT L: Delivery Schedule for Owner Supplied Items

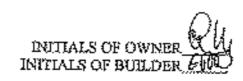
EXIMBIT M: Equipment List

EXHIBIT N: Builder's Subcontractor Policy

EXHIBIT O: Items to be Delivered by Builder at Delivery of Vessel

EXHIBIT P: GEMINI Contract Price Summary (Final)

EXHIBIT Q: Navai Architect's "Weight Estimate: GEMINI" (V.03)



VESSEL CONSTRUCTION AGREEMENT

This Agreement is made as of the 30th day of June, 2005.

by and between:

Genuini II LTD., a Cayman Islands exempted company, whose registered address is Cayman Business Park, A7, P.O. Box 10300 APO, Grand Cayman, Cayman Islands and its assigns (hereinafter referred to as the "Owner")

and:

Dercektor Shipyards Conn., LLC, a Delaware limited liability company, whose address is 837 Seaview Avenue, Bridgeport, Connecticut 06607 (bereinsfler referred to as the "Builder").

WITNESSETH:

RECITALS:

WHEREAS, the Owner wishes to have custom built for it, to the highest standards, a 145' houry sailing catemaran for both private use and for chartering (i.e., commercial use) and suitable for year round, worldwide emissing, all seas, with trans-operatic capability, all as more specifically described herein and in the Plans and Specifications (the "Vessel");

WHEREAS, the Builder has submitted a proposal to the Owner for construction and delivery of the Vessel; and

WEIGREAS, after discussions and negotiations in respect of the Builder's proposal, the Owner and the Builder wish to enter into an agreement providing for the construction and delivery of the Vessel;

NOW THEREFORE, the Owner and Builder agree that the Builder shall build, construct, fit, equip, and complete the Vessel at its shippard located at Bridgeport, Connecticut, using the best yachi building practices, best workmenship and finest quality materials, and shall subsequently launch, test, classify, deliver and warranty the Vessel to the Owner, and the Owner shall pay for and accept and take possession of the Vessel, all upon the terms and conditions set forth in this Agreement

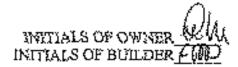
ARTICLE 1. FURPOSE

This Agreement sets out the terms and conditions on which the Builder will construct and deliver the Vessel to the Owner, and the conditions on which the Owner will pay for, hold title in, and ultimately accept delivery of the Vessel.

ARTICLE 2. DEFINITIONS

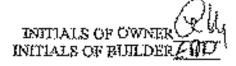
In this Agreement, the following defined terms shall have the meanings assigned to them unless the context officiwise requires:

- a) "Acceptance" means acceptance of the Vessel by the Owner in accordance with ARTICLE 16.
- b) Adjusted Guaranteed Weight" has the meaning ascribed thereto in Section 19.2 a)(i).
- c) "Agreement" meants this Vessel Construction Agreement, together with the Plans and Specifications, the Standards, and all other exhibits or attachments hereto, all as amended in writing from time to time.
- d) "Base Guaranteed Weight" has the meaning ascribed thereto in Section 19.2.
 a)(i).
- c) "Builder's Bank" means the Bank of New York/County Region, 535 East Boston Post Road, Mamaroneck, New York 10543.
- 1) "Builder's Shipyard" means the Builder's shipperd in Bridgeport, Connecticut.
- g) "Bosiness Day" means a calendar day other than a Saturday, Sunday or public holiday in the state of Connecticut.
- h) "Change Order" means a variation from the "Plans and Specifications" agreed in writing and signed by the Builder and the Owner in strict compliance with the provisions of ARTICLE 11.
- "Classification Society" means Bureau Veritas.
- "Classification Surveyor" means a surveyor appointed by Bureau Venius pursuant to ARTICLE 7.
- k) "Communicationent Date" means the date on which all the events specified in Section 13.1 have been fulfilled.
- i) "Construction Schedule" means the mutually acceptable GANTE chart or equivalent format production schedule for the construction of the Vessel set out in Exhibit H hereto, as it may be modified by mutual written agreement from time to time.
- m) "Construction" or "Construct" means the engineering, fabrication, assembly, erection, testing, trials and delivery of the Vessel in conformance with this Agreement.
- a) "Contract Price" means the fixed price of Twenty-seven Million Ninety-four Theatend Four Fundred Ninety-eight and no/100 DoRacs (\$27,094,498.60), as stated in



ARTICLE 10, inclusive of the Cost Allowance as provided in Exhibit K, and inclusive of all fees, charges, taxes (other than sales tex), levies and other duties as described in ARTICLE 23 a) that may be imposed on or with respect to the Vessel and her components prior to acceptance of the Vessel by the Owner for which the Builder is responsible, and inclusive of all costs of insurance as provided in ARTICLE 22, but subject to adjustment for any "Change Orders" made strictly in accordance with ARTICLE 11.

- o) "Cost Allowance" means the amount of \$5,884,422.00, being the sum of the aggregate of all of the Cost Allowance Items identified on Exhibit K.
- p) "Cost Allowance Items" means the various items or work identified on Exhibit K, the estimated values of which in the aggregate make no the Cost Allowance.
- q) "Default Rate" means the interest rate calculated on a daily basis at the aggregate rate per assum of the "prime rate", as aunounced from time to time by Bank of America, N.A., plus 4 %, and compounded annually.
- r) "Delivery Date" means November 27, 2007, or such earlier or later date as may be provided in a Change Order, or as may be calculated in accordance with any provisions of this Agreement expressly providing for extending or shortening such date, or such other date as the parties may agree in writing.
- Delivery Payment" has the meaning ascribed thereto in Section 12.2 a)
- *Deposit" means the initial amount equal to five percent (5%) of the initial Contract Price as provided in Section 12.2 a)(i).
- "Effective Date" means the date as determined in accordance with ARTICLE
 30.
- v) "Equipment" means all items, including without limitation equipment, machinery, electronics, parts and materials used or intended to be used in the Construction of the Vessel, but excluding "Owner Supplied Items."
- w) "Equipment List" means the equipment list signed by the Owner and Builder and attached hereto as Exhibit "M", and any written amendments or addends thereto, and any further equipment lists as may be agreed in writing from time to time between the Owner and the Builder, all of which form an integral part of this Agreement.
- x) "Escrew Agent" mesus Holland & Knight LLP or any successor escrew agent appointed pursuant to the terror of the Escrew Agreement,
- y) "Excrow Agreement" means the Escrit Agreement in the form of Exhibit I providing for the establishment and operation of the Warranty Guarantee Account.



- 2) "Flag State" means the Cayman Islands, which is designated by Owner as the State where the Vessel will be registered upon completion and delivery.
- as) "Force Majeure" means any event or circumstance beyond the control of the party asserting it which renders such party unable to perform any of its obligations under this Agreement including, without limitation, so-called "acts of God", fire, flood, explosion, lightning, acts, orders of any governmental authority, agency, or department, strikes, lockouts or other industrial disturbances, acts of terrorists or other public enemies, riots or civil commettee, war, or blockade.
- bb) "Insured Amount" has the meaning ascribed thereto in ARTICLE 22 e).
- ec) "Interior Designer" means the interior designer/architect engaged by the Owner 2s contemplated by Section 6.2, or any replacement or substitute engaged by the Owner.
- 46) "Involve" means a Builder supplied document requesting payment and detailing the justification for the requested payment.
- ee) "Lessor" means The Bridgeport Poet Authority.
- ff) "Manufacturers Warranties" has the meaning ascribed thereto is Section 19.1 g).
- gg) "Marine Engineer" means the musine engineer engaged by the Owner as contemplated by Section 6.3, or any replacement or substitute engaged by the Owner.
- inh) "Measured Weight" has the meaning ascribed thereto in Section 19.2 a)(i).
- ii) "Milestone Certificate" means a certificate in the form of Exhibit I hereto, or in such other form as may be agreed by the Builder and the Owner, to be signed prior to the payment of each Milestone Payment (other than the Deposit) by each of (i) the Builder or the Project Coordinator and (ii) the Owner or the Owner's Representative, and at least every other Milestone Certificate also to be signed by both the Marine Engineer and the Classification Surveyor, as provided in ARTICLE 12.
- ii) "Milestone Payment(s)" has the meaning ascribed thereto in Section 12.2 a).
- is) "Navel Architect" means the navel architect engaged by the Owner as contemplated by Section 6.1, or any replacement or substitute engaged by the Owner.
- "Owner's Representative" means the person appointed by the Owner pursuant to ARTICLE 4 a), or any replacement or substitute ongaged by the Owner.
- mm) "Owner Supplied Items" means any items identified in Section 11 or Section 16.02 of the Specifications, or elsewhere in the Specifications, that are specifically to be purchased or famished by the Owner for inclusion in the Vessel.

BUTTALS OF OWNER X INITIALS OF BUILDER FOR

"Payment Location" mesos the account listed below of such other account or place as the Builder may designate in writing to the Owner from time to time bereunder:

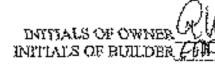
> The Bank of New York/County Region 535 Bast Boston Post Road Marnaroneck, New York 10543 ABA #021-0000-18 Account Name: Derecktor Shipyards Cont., LLC Account No. 6701-990-887

- "Plans" means the plans and drawings signed by the Owner and the Builder and attached hereto as Exhibit B, and any written amendments or addenda thereto, the plans and drawings provided by the Interior Designer, when approved by the Owner and Builder, and any farther plans or drawings as may be agreed in writing from time to time between the Owner and the Builder, all of which form an integral part of this Agreement
- "Project Coordinator" means the person appointed by the Builder parsuant to (पुर्व ARTICLE 5.
- "Regulatory Body" means any governmental department or agency of the Flag State, or Classification Society or other authority which issues, interprets or enforces the laws, rules and regulations that will govern the Construction and classification of the Vessel as set forth in the Specifications and in ARTICLE 7.
- "Sea Trials" means the dock trials and sea trials to be performed as provided in 17) ARTICLE 16 and in the Specifications.
- "Shipyard Lease" means the Builder's lease dated September 11, 2000 with the Lessor for the premises on which the Builder's Shippard is located.
- "Specifications" means the specifications signed by the Owner and the Builder and attached hereto as Exhibit A, including the interior specifications developed by the interior Designer and/or by Jan Greeves, as reasonably approved by the Builder, and any written amendments or addends to any of the foregoing, and any further specifications as may be agreed in writing from time to time between the Owner and the Builder, all of which from an integral part of this Agreement.
- "Strudards" means and includes all of the following: un)
 - (i)the Specifications and any addenda (Exhibit A).

(ii) the Plans and mry addenda (Exhibit R).

the Equipment List and any addenda (Exhibit M). (iii)

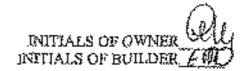
the Bureau Veritus ("BV") Classification Standards and Rules applicable to the Vessel for classification with the notations specified in ARTICLE 7 b)



- (v) the MCA Large Commercial Yorks Code ("Y") (Exhibit P),
- all applicable laws, regulations and rules of the Flag State, (vi)
- all applicable laws, regulations and rules of the United States that apply to (v_{11}) foreign flag yachts operating in U.S. waters, and
- (visi) National Fire Protection Association, Standard 302 for Picasure and Commercial Motor Craft, 2004 Edition on latest edition thereafter (but only to the extent not in conflict with the other standards identified almost.
- "Subcontractor" means any person other than employees, engaged by the Builder to execute any part of the work under this Agreement on behalf of the Builder.
- "Supplier" incans any person responsible for the supply, manufacture, construction, installation or delivery to the Builder of any of the materials, machinery, equipment or other components of the Vessel.
- "Warranty Guarantee Account" means the interest bearing entrow account established and operated by the Escrow Agent pursuant to the trams of the Escrow Agreement for the sole purpose of wiministering the funds from the agreed 2% holdback from each Milestone Payment made by Owner until the amount in such account reaches Pour Hundred Thousand Dollars (\$400,000,00), all as provided in Section 12.1.
- "Warranty Period" means the eighteen (18) month-period following the date the Protocol of Delivery and Acceptance is signed by the Owner.

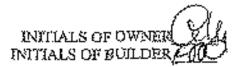
ARTICLE 3. SCOPE OF THE WORKS

- Builder shall Construct the Vessel in accordance with this Agreement, as medified by any Change Orders, and in compliance with the Standards, within the Construction Schedule, and to the full classification of the Classification Society as specified in ARTICLE 7. The Vessel shall be Constructed in a manner consistent with the standards, practices and workingenship of a first class consum builder of luxury yachts. The Builder hereby designates the Vessel as the Builder's ID Number 85135.
- Unless otherwise specified in the Specifications, Builder shall be responsible for (i) purchasing all Equipment, and (ii) providing all labor or arranging Subcontractors to provide such labor, each as is necessary for the Construction of the Vessel.
- Construction of the Vessel includes the engineering, fabrication, assembly, exection, testing, trists and delivery of the Vesset in conformance with this Agreement, and includes all certificates described herein or in the Specifications as well as other cestificates, if any, required by the Flag State, the Classification Society, or any other Regulatory Body. All elements of such Construction shall be accomplished by the



Bailder at no additional cost to Owner or Owner's Representative, except for Change Orders and/or as otherwise provided in this Agreement.

- It is the intent of this Agreement that the Builder is to Construct, furnish and outlit the Vessel so that it will be ready for its intended zervice, pursuant to the Plans. and Specifications. All items to be foreshed by the Owner are specifically identified in Section 11 and Section 16.02 of the Specifications as Owner Supplied Items. Anything accessary for the proper construction and functional operation of the Vessel that is not specifically identified as Owner Supplied Items in Section 11 and Section 15.92 of the Specifications is the responsibility of the Builder. The Ruilder is also responsible for the installation of Owner Supplied Items, including all necessary foundation, connections, and related ensignment, all as provided in the Specifications.
- The Owner shall obtain and arrange for delivery to the Builder's premises all of the Owner Supplied Items specified in the Specifications in accordance with the schedule attached hereto as Exhibit I., for Builder to install in the Vessel. The Builder shall notify the Owner thirty (30) days in advance of the Builder's need for the Owner Supplied Rems, which shall be approximately so the dotes indicated on Exhibit L. The Owner shall also timely provide to the Builder any information and documentation necessary for the handling, storing and installation of Owner Supplied Items. Prior to the delivery of Owner Supplied Items to the Builder's Shippard, they shall be entirely at the risk of the Owner. Upon the delivery of Owner Supplied Bears to the Builder's premises, the Builder may earry out such inspections and checks as it would for its own recuived materials and equipment. The Builder shall be entitled to reject such of the Owner Supplied Roms as the Builder finds to be damaged or defective or not suitable for installation in the Vessel. The Builder shall promptly notify the Owner's Representative of any such non-acceptance and give reasonable details of the reasons for such thon-acceptance. The Owner shall arrange for the prompt replacement or repair of any such damaged, defective, or unsuitable items. The Builder shall, at its own risk and expense, receive, inspect, and check as to conformance with packing lists and bills of lading all Owner Supplied Bess upon their actival at the Builder's premises, and shall immediately made there with the Builder's ID Number 85135 and properly said securely handle, store, protect and insure them, with the same high degree of care and diligence as if they had been purchased by the Builder. The Huilder shall store all Owner Supplied Items in secure and appropriately climate controlled storage facilities, separated and segregated from the Builder's own inventory and equipment. The Builder shall be responsible for any damage to or loss of Owner Supplied Items after receipt at the Builder's premises, no matter how such damage or loss may wise, unless caused directly by the Owner's Representative or employees, or by subcontractors cogniged by the Owner.
- The installation of, or preparation for installation of, the Owner Supplied Items is included in the scope of the works for which the Builder is responsible to the extent so stated in the Specifications. To the extent, if any, that the Specifications do not provide for the installation by the Builder of cortain of the Owner Supplied Rems, the



installation may be curried out by the Owner or its subcontractors, at the expense of the Owner. Alternatively, if the Builder and the Owner so agree, any of such items may be installed by the Builder with such installation being handled as a Change Octor pursuant to and in compliance with the provisions of ARTICLE 11. If Owner Supplied Stans are being installed by the Owner or its employees or subcontractors, the Beilder shall provide them access to the Vessel and to the premises of the Builder and of any Subcontractors of the Builder, to the extent necessary in connection with the efficient performance of such work and installations. While carrying out such installations, the Owner's Representative and Owner's employees or subcontractors shall not unnecessarily obstaget the Builder or its Subcontractors in their continuing construction of the Vessei.

The Builder shall prominently mark the Vessel and all Equipment and Owner Supplied Iteres with the Builder's ID Number 85235 or other clear and definitive markings identifying them to the Vessel immediately upon their arrival at the Builder's Shippers, or in the case of stems that will be taken from the Builder's stock or inventory, immediately upon their being identified as intended or designated for the Vessel.

ARTICLE 4. OWNER'S REPRESENTATIVE

- On or before the Commencement Date the Owner shall notify the Builder in writing of the name of the Owner's Representative. The Owner shall similarly notify the Builder promptly of any replacement of the Owner's Representative.
- If the Owner's Representative (or any replacement appointed parament to this Section) is unable or unwilling to act, or shall be removed from this position by the Owner at any time, the Owner shall as soon as reasonably practicable notify the Builder of the name of the replacement appointed by the Owner.
- The Owner's Representative shall carry out the duties set forth herein, and may exercise the authority specified in or necessarily to be implied from, this Agreement.
- Except as expressly stated in the Agreement, the Owner's Representative shall have no anthority to around the Agreement, or to expec to any single Change Order costing more than \$5,000.00 or total Change Orders costing more than \$250,000.00 in the aggregate. For approval of proposed change orders having a cost impact in excess of these limits, the signature of the Owner is required.
- The Builder shall provide, at its expense and cost, suitable office space and c) office facilities at the Builder's Shippard for the Owner's Representative as may be ressonably necessary to enable him effectively to carry out his work. This includes the supply of secure office space, office furniture, availability of meeting ruoms, telephone and telefax lines, and high speed internet across. Communication expenses of the Owner's Representative shall be charged to the Owner's account.

- g) All legel permissions and acceptances required for the Owner's Representative's stay or visits in the United States of America as well as all insurances required (e.g.: third party, accident & health) during work on or off the Builder's premises shall be the Owner's responsibility.
- the Owner's Representative will be the direct contact of the Project Coordinator for performance of this Agreement.

ARTICLE 5. PROJECT COORDINATOR

- a) On or before the Commeacement Date the Builder shall notify the Owner in writing of the name of the Project Coordinator. The Builder shall similarly notify the Owner of any replacement of the Project Coordinator.
- b) The Project Coordinator will be responsible for overseeing the Construction of the Vessel within the conditions of this Agreement.
- c) Except as expressly stated in this Agreement, the Project Coordinator shall have no authority to assend this Agreement, or to agree to any single Change Order conting more than \$10,000.00 or total Change Orders costing more than \$500,000.00 in the aggregate. For approval of proposed Change Orders having a cost impact in excess of these limits, the signature of the Builder is required. The Project Coordinator will be charged with presenting proposed changes to the propor authority of Builder for approval when asked by the Owner or Owner's Representative.
- d) The Project Coordinator will be the direct contact of the Owner's Representative for performance of this Agreement.
- c) The Project Coordinator shall receive on helialf of the Huilder all consents, approvals, orders, instructions and information given by the Owner's Representative.

ARTICLE 6. NAVAL ARCHITECT; INTERIOR DESIGNER; MARINE ENGINEER

Section 6.1 . Naval Architect

- a) The Naval Architect engaged by the Owner is Van Peteghem Lauriot Prévost SARL. The Owner is responsible for paying the Naval Architect's charges.
- b) The Naval Atchitect will provide concepts, geometry, functionality and aesthetics of the Vessel and related items, has will not provide construction drawings or detailed drawings, except as indicated to the contrary in the Plane and/or Specifications. It will be the responsibility of the Builder to prepare all other final construction drawings or detailed drawings, subject to approval by the Owner or Owner's Representative.

INITIALS OF OWNER ON INITIALS OF BUILDER AND INITIALS

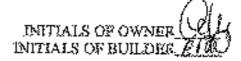
The Builder may communicate directly with the Naval Architect to matters relating to the plans and drawings provided by the Naval Architect and the Owner shall instruct the Navoi Architect to work in cooperation with the Builder in that regard. The Owner's Representative shall be copied on all communications between Builder and the Naval Architect. The Builder shall have the right not to accept any concepts, geometry, functionality and neetheties of the Veszei proposed by the Naval Architect that would make the Vessel unsafe, or this would not comply with the Standards.

Section 6.2 . Interior Designer

- The Interior Designer engaged by the Owner is Michael Leach Design Limited. The Owner is responsible for paying the Interior Designer's charges,
- The Interior Designer will be responsible for providing plan views, elevations, ceiling plans, materials specifications, lighting details including fixtures, fabric details, and faratiture design details for all the Owner, guest, crew, and public spaces for the Vessel, but will not provide construction drawings or detailed drawings, except as indicated to the contrary in the Mans and/or Specifications. The Builder shall provide the Interior Designer with arrangements and sections of the Vessel defining the space available for the interior furnishings. The Interior Designer shall not be responsible for providing any details for the latarette, engine more, and auxiliary machinery spaces of the Vessel. It will be the responsibility of the Builder to prepare all other final construction drawings or detailed drawings, subject to approval by the Owner or Owner's Representative.
- The Builder may communicate directly with the Interior Designer in metters relating to the interior plans and drawings, and the Owner shall instruct the interior Designer to work in cooperation with the Builder in that regard. The Owner's Representative shall be copied on all communications between Builder and the Interior Designer. The parties recognize that development of the interior plans and drawings to the Owner's estimaction will be a cooperative effort requiring the exercise of "good faith" by all involved. The Builder shall have the right not to accept my concepts or ideas as proposed in the Interior Designer's interior plans and drawings that would make the Vessel mosafe, or that would not comply with the Sundants.

Section 6.3. Marine Engineer

- The Marine Engineer engaged by the Owner is Taylor Marine Services, Inc. The Owner is responsible for paying the Matine Engineer's charges.
- The Marine Engineer will provide schematic concepts and technical documentation for certain engineering systems for the Vessel, but will not provide class approved drawings, construction drawings or detailed drawings. It will be the responsibility of the Builder to prepare the final construction drawings or detailed drawings, subject to approval by the Owner or Owner's Representative.



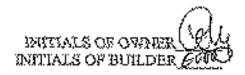
The Builder may communicate directly with the Maxine Engineer in matters relating to the engineering systems, and the Owner shall instruct the Marine Engineer to work in cooperation with the Builder in that regard. The Owner's Representative shall be copied on all communications between Builder and the Marins Engineer. The Builder shall have the right not to accept any schematic concepts and technical documentation for engineering systems as proposed by the Marine Engineer that would make the Vessel regate, or that would not comply with the Standards.

ARTICLE 7. CLASSIFICATION AND STANDARDS

- The Builder is to be responsible for constructing the Vessel to the Standards. Notwithstanding anything to the courrery in this Agreement or in the Plans and Specifications, unless that only to the extent) prevented by a Change Order approved in accordance with ARTICLE 11, it shall be the duty of the Builder to construct, complete and deliver the Vessel in compliance with the Standards.
- The Vessel shall be subject to full plan review by, and shall be constructed under full survey by the Classification Society (as to both half and machinery) in accordance with its rules and regulations for the classification designations and/or symbols set forth below (and the Vessel shall be so classed);

 Ω_{355} Symbol: Construction Market Service Notation: Other: Ţ 🕸 (Ivinkiese Cross) HULL YACRT (E) Equipment (Bulket) MACH

- Furthermore the Vessel shall be constructed, exclipped and outfitted to comply with the laws, rules and regulations of the Flag Siete and of the United States that apply to foreign flag yachts operating in U.S. waters, and with international conventions and regulations in farce in United States watern, to the extent applicable to vessels of the size and type of the Vessel, and that carry not more than 12 passengers on integrational voyages, knoluding, without limitation:
 - Convention on the International Regulations for Preventing Collisions at Sea, 1972, as amended;
 - International Convention for the Prevention of Pollution from Ships, 1973. (ii) ("MARPOL"), as subsequently smended/superseded by the 1978 MARPOL Protocol ("MARPOL 73/79"), and all applicable america and amendments, and statutory medifications or re-coactments thereof for the time being in force in the United States;
 - International Convention for the Safety of Life at Sea, 1974, and 1978 Protecol, 1988 Protecol, and all applicable agrees and uncoduments (to the extent applicable to the Vessel), including, without limitation, the amendments



regarding Rudio Communications for the Global Maritime Distress and Safriv Systems ("GMDSS");

- International Convention on Tennage Measurement of Ships, 1969, as amended, and Seez Canal and Panama Canal tempage regulations and រូវឲ្យប្រទិស្សប្រការប្រជុ
- International Load Line Convention, 1966, and 1988 Protocol, and all applicable essences and amendments (to the extent applicable to the Vessel);
- (iv) International Telecogrammications Convention, 1982 and amounts and amendments (to the extent applicable to the Vessel);
- Any other conventions or regulations as may be particularly stated in the Specifications.
- If after the Effective Date of this Agreement any modifications are made to the laws, rules and regulations applicable to the Vessel or their interpretation or application and such modifications are compoleory for the Veteth, the Bailder shall present to the Owner's Representative a composed Change Order for the required modifications.
- The decisions of a Regulatory Body shall be final and binding on both contracting parties as to the Vessel's compliance or non-compliance with the laws, tules and regulations observance of which is controlled by the said Regulatory Body.
- The Builder alone is to be responsible for the construction of the Vessel and the quality of werkmanship said materials offer than Owner Supplied Items. The fact that drawings have been shown to the Owner or approved on behalf of the Owner by the Owner's Representative will not relieve the Builder in any way from ARTICLE 7 a). Anything not mentioned in the Specifications, Exhibit A, but which is as of the Effective Date of this Agreement required by the Classification Society and/or the Flug. State for the construction or functional operation of the Vessel is to be supplied and installed at the Builder's expense.
- At the Builder's regress, the Classification Society shall naminate a representative (the "Classification Surveyor") to inspect the Vessel during Construction.
- The Builder shall pay all fees and charges incidental to the inspection. classification and compliance with the Flag State's and the Classification Society's rules and regulations, and with the requirements set forth in the Standards in relation to the Construction of the Vessel, including fees and charges for plan approval, certifications, issuance of certificates, or any related costs. Any and all feas that may be charged by the Classification Society with respect to its verification and execution of any and all Milestone Certificates shall be borne by the Builder.

- The Builder shall arrange for all materials and equipment used and to be used in the construction of the Vessel and all construction work to be made available for imposition and testing, as required, by the Classification Society and the Owner's Representative. The Builder shall make all necessary facilities available so that those inspections and tests can be carried out by the Classification Society and the Owner's Representative safely and conveniently. One original and one copy of all test certificates issued the Classification Society or by any manufacturers shall be provided to the Owner's Representative.
- The Builder shall pay for testing and materials consumed during testing mentioned in this ARTICLE or in ARTICLE 16.

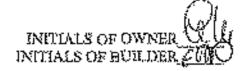
ARTÍCLE 8. CONSTRUCTION

Section 5.1. Location

- The Builder shall Construct the Vessel at the Builder's Shipyard, Prior to delivery, the Builder shall not pound the Vessel to be removed from that shippard еждеры
 - 0with the prior consent of the Owner, or
 - (ii) for purposes of the Sca Trials; or
 - in case of a Force Majoute event when it is necessary for the safety or (iii) protection of the Vessel, or
 - (iv) is the evest of the yalid termination of this Agreement.

Section 8.2. Subcontractors

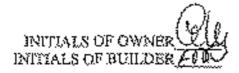
- (t) The Builder may appoint Subcontractors as it deems fit for certain specialized work.
- ъ) The Builder, however, remains responsible for any work performed or materials. supplied by its Subcontracions to the same extent as if the Bailder had performed the Work or supplied the materials itself.
- Unless disputed in good faith and by appropriate commercial or legal actions initiated defore the due date, the Builder shall pay when due all involves, charges or claims due for labor, survices, maisrids, Equipment, and supplies fornished for the work done under this Agreement by may said all persons and entities for which it is Builder's obligation to pay under this Agreement, including Builder's Subcustractors. Builder agrees to protect, defend, indemnify, and hold harmless the Vessel and the Owner from any and all liens, demands or claims resulting from or arising out of any work performed or materials, Equipment, and supplies famished under this Agreement



by Builder or by Builder's Subcompators or Veadors or by any and all other persons and entities for which it is Builder's objiquion to pay under this Agreement.

Section 8.3 Control Of Construction: Access by Owner or Owner's Representative

- Until acceptance of the Vessel by the Owner, the Owner shall have the right to have the Versit and all engines, machinery, putils, equipment and materials intended therefore, and all work being done thereon, inspected during the construction by the Owner and/or Owner's Representative, the Naval Architect, the Interior Designer, and/or the Marine Engineer (or by other inspectors designated by the Classification Society or the Flag State) for the purpose of determining that the Vessel is being constructed in accordance with the terms of this Agreement. The Builder shall grant such persons free access during normal working hours to the Vesnel and such other items at the Builder's Shippard and workshops and storage facilities or wherever the same may be located or wherever work is being done. The Builder shall provide such inspectors with reasonable working facilities, including office eccommodation and telephone and telefax facilities and high speed internet access.
- The Builder shall use its best efforts to process that, with reasonable prior notice, the Owner's Representative shall have access to the premises of the Subcontractors of the Builder who are doing work in connection with the construction of the Vessel.
- While carrying out his inspections under this Agreement, the Owner's Representative shall not obstruct the Builder of its Subcontractors in the construction of the Vessel, nor shall be direct or communicate to any employer of Builder or any Subcommentar, except the Project Coordinator, to perform any week heremeter.
- The Owner's Representative and subcontractors, if any, may exercise their functions during the normal business hours of the Builder or as officewise agreed with Builder.
- The Owner's Representative and subcontractors, if any, shall be obligated to abide by all resconsists and applicable published company rules and regulations when present in the premises of the Builder and/or its Subcontractors. A copy of Builder's Subcontractor Policy is attached beyoth as Exhibit N.
- The Owner's Representative may consult with the Project Coordinator is all marters relating to the construction of the Vessel as frequently as the Owner's Representative considers necessary but no less than once a week on a day to be agreed.
- The Builder shall use its best efforts to maintain an open and compensative construction puthway among the Builder, Owner's Representative, and any Salventrastore un all issues involving such Subcontractors.



Section 8.4. Unsatisfactory Works and Materials

- During the Construction of the Vessel the Owner's Representative shall have power to demand in writing:
 - the removal from the Vessel or from the construction site, within such time or times specified in the instruction, of any Equipment or materials which in his reasonable opinion do not comply with the Agreement;
 - (ii) the replacement of such Equipment or materials with others that in the reasonable opinion of the Owner's Representative do so comply; and
 - the removal and proper replacement of any work which, in respect of materials or workmanship or design or engineering supplied by the Builder or for which the Builder is responsible, does not in the reasonable opinion of the Owner's Representative comply with the Agreement.
- **b**) Such instruction given by the Owner's Representative most clearly state the basis for such removal, including the relevant provision of this Agreement.
- c) On receipt of such instruction, the Project Coordinator shall either
 - comply with the instruction and remedy such work and/or materials and/or design and/or engineering; er
 - contest the instruction received from the Owner's Representative by senting a written notice to the Owner's Representative explaining the ressons for his disagreement with the instruction.
- If the Project Coordinator contests the instruction received from the Owner's Representative, the Owner's Representative and the Project Coordinator shall hold an official meeting as soon as practicable, and in any event within five (5) Business Days offer the natice was delivered, to solve the problem.
- If during the steeting the Owner's Representative and the Project Coordinator agree on the matter, they shall record the agreement in the minutes of the meeting signed by both, and the Project Coerdinstor shall promptly implement the agreement.
- If desing the meeting the Owner's Representative and the Project Coordinator are unable to agree on the matter it shall be referred for resolution in accordance with ARTICLE 27.

Section 8.5. Construction Schedule

Attached hereto as fixibilit H is the Construction Schedule prepared by the Builder setting out in detail the timewhile for delivery by the Naval Architect, laterfor Designer, and Marine Engineer of those deliverables required by the Builder so that the

> INITIALS OF OWN INITIALS OF BUILDER

Builder can maintain its schedule, and the timetable for the construction and complation of each of the major elements, components and systems of the Vessel, and for the ordering of and delivery to the Builder of the main materials, engines, machinery, equipment and other components of the Vessel, including the Owner Supplied Items, provided that the said Exhibit H may be amended from time to time in accordance with the terms of this Agreement. Delay in providing to the Builder the stagesco deliverables or Owner Supplied Items may entitle the Builder to an extension of the Delivery Date, but only as and to the actent provided in Section 13.2.

b) The Construction Schedule for the delivery of the Vessel to the Owner by the Delivery Date assumes that the Builder employs commercially reasonable construction practices to comply with the Plans and Specifications using a skilled labor force working a standard 40 hors work week. The Owner may request, and the Builder shall reasonably comply with such request, at a mainably agreed price, to shorten the Construction Schedule and accelerate the Delivery Date by employing overtime and such other practices as will accelerate the delivery of the Vessel.

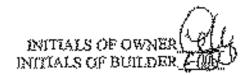
Section 8.6. Construction Weight Monitoring and Control

Builder acknowledges that weight control is an essential component of the Vessel. Therefore, in addition to Builders warranty of the Adjusted Guaranteed Weight parameter Section 19.2 a)(i), Builder shall institute a weight control program and use its best efforts to realizate, engineer, recommend and monitor all aspects of the Vessel weight during Construction so that the Measured Weight of the Vessel at delivery will not exceed the Adjusted Guaranteed Weight determined in accordance with Section 19.2 a)(i).

ARTICLE 9. APPROVAL OF PLANS AND BRAWINGS, AND EQUIPMENT

Section 9.1 . Plans and Drawings

- a) The Project Coordinator shall submit to the Owner's Representative for review based on the Plans and Specifications copies of all construction plans and detailed drawings necessary for the classification or Construction of the Vessel.
- b) The Owner's Representative shall provide his comments to writing on such plans and drawings as soon as practicable, but its any event within ten (10) calendar days of recoipt.
- c) If the copy of the plans and drawings are returned to the Project Coordinator with comments by the Owner's Representative justified under the terms of the Agreement and if those comments do not constitute a Change Order, then the Project Constitutor shall resolved the modified construction plans and detailed drawings incorporating the comments of the Owner's Representative that do not constitute Change Orders within ten (10) calendar days after receipt of comments from the Owner's Representative that provide his



written approval or comments as soon as practicable, and in any event within five (5) Business Daye of his receipt of the medified pleas or diswings.

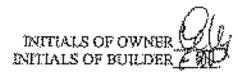
- Once construction plants and detailed drawings have been reviewed by the Owner's Representative they must be submitted to and approved by the Classification Society before orders are placed or work is commenced that relates to such along and drawings. If the Beilder proceeds with the purchase of materials or the performance of work prior to approval by the Classification Society, it does so at its own tisk and expense,
- e) The Owner is responsible for the fees and costs of the Naval Architect, Interior Designer, Marine Engineer, Jan Greeves, and any other third parties specifically engaged by Owner in connection with the preparation of the Plans and Specifications, and any modifications thereto.

Section 9.2. Equipment

- The Plans and Specifications and Equipment List may designate specific a١ brands and models for certain Equipment, and for some Equipment may indicate that the Bailder may substitute something "equal" or "better", with the approval of the Owner's Representative. If the Builder proposes to substitute semething as "equal" or "better" Equipment, it must provide the Owner's Representative a written proposal with full information, including without limitation, the weight, life cycle, performance criteria and cost differentials for the proposed substitution, unless the Owner or Owner's Representative approves in writing any such proposed substitution without recenting a fall written proposal.
- The Equipment inconporated in the Vessel must be that specified in the Specifications or in the Equipment List, or "equal" or "better" Equipment where pennitted by the Specification or Equipment List and approved in writing by the Owner or Owner's Representative.
- The Owner's Representative shall provide his approval or comments on any proposed substitute Equipment within five (5) Business Days of reacipt of the proposal from the Project Coordinator.

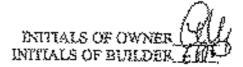
ARTICLE 10. CONTRACT PRICE

The initial Contract Price is the sum of Twenty-seven Million Ninety-Your Thousand Four Hundred Ninety-eight and no/100 Dollars (\$27,094,498.00), inclusive of all adjustments agreed prior to contract signing as set forth on Germini Contract Price Summary (Final), attached hereto as Exhibit P. The Counact Price is based on the most recently updated Specifications and Plans as of the contract signing, copies of which are attached hereto as Exhibits A and B, respectively. The Contract Price is subject to adjustment (i) for Cost Allowance flows that, in the aggregate, are more or less than the Cost Allowance, (ii) for Change Oniers as provided in ARTICLE 11, (iii) for any



liquidated damages as provided in Section 19.2., (iv) for may bosness as provided in ARTICLE 17 h) or Section 19.3, and (v) for any reimbursement due the Builder pursuant to ARTICLE 10 D in respect of incremental cost increases from vendors resulting from delay in finalizing the Plans or Specifications for which delay the Owner is held responsible. The final Contract Price shall be the initial Contract Price plus or minus the net price adjustment for all Cost Allowance Items in the aggregate, and for Change Orders under ARTICLE 11, plus or minus the net price adjustment(s) for any liquidated damages and/or bumages under ARTICLE 19 or ARTICLE 17 h) and/or ARTICLE 17 b), and plus any reimbursement due the Builder persoant to ARTICLE 10 f),

- 'n) The Contract Price includes the Cost Atlowance for the Cost Allowance Items set forth in Exhibit K and further detailed in the Plans and Specifications and/or Equipment List. As part of the Contract Price, the Builder is to connerate with the Owner and Suppliers in purchasing, manufacturing, and/or matalling Cost Allowance Matta approved by the Owner as provided for in the Specifications of Euphyment List.
- For purposes of identifying and costrolling fac amounts that may be affocuted or counted toward the Cost Allowence, it is agreed that only the following amounts may be allocated as counted toward the Cost Allowance Berns individually, and toward the Cost Allowance in the aggregate:
 - The net wholesale delivered cost (i.e. wholesale cost net of all discounts, allowances or profit, plus transport insurance, plus freight) of Cost Allowance Items obtained from Suppliers, or of materials specifically and exclusively for the manufacturing of such items by Builder;
 - The net wholesale costs of all work on Cost Allowance Rems performed by Subcontractions;
 - A dischap for evertical and profit allowance of 12.5% on the nat whosesse delivered cost to Buildet of Cost Allowance Items or materials for such items obtained from Suppliers,
 - A markup for overhead and profit allowance of 10 % on the net wholesale cost to Builder of work on Cost Allowance Rems performed by Subcontractors, except in the case of the interior joisery package, for which are overhead and profit allowance of 10% will be allowed only within the amount of the Cost Allowance allocated to that Cost Allowance Item, and only a 5% overhead and profit allowance will be allowed on costs in excess of that allocated amount;
 - Charges at the following rates for labor performed by Builder's employees. on Cost Allowance Boms, which are inclusive of overhead and profit allowance:
 - Α. Engineering labor by qualified engineers —



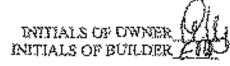
- (A)During 2005, \$70/hour.
- (B) Dering 2006, \$73/hour;
- (C)During 2007, and any time thereafter, \$75/hour.
- Production labor --Я.
 - (D)During 2005, \$55/koan.
 - **(33)** Daring 2006, \$57/hour,
 - Θ During 2007 and at any time thereafter, \$59/hour; and
- The solval increase in premiums, if any, for Builder's Risks Insurance (vi) directly resulting from increased value of the Vessel, above the initial Contract Price, due to excess cost on the Cost Allowance items in the aggregate,
- If the total annual counted toward the aggregate of all Cost Allowance faces is less than the Cost Allowance, the Builder shall recognize a credit reducing the Compact Price for the difference. Conversely, if the total amount counted toward all Cost Allowance items exceeds the Cost Allowance, the Owner shall pay the Builder the difference as an increase to the Contract Price.
- It is the intention of the Owner to evoid or minimize, to the greatest extent fawfully possible, the imposition of state sales or use or other taxes with respect to the Vessel, which may involve delivery of the Vessel in a location or jurisdiction outside of Connections. The Builder shall use its best efforts to cooperate with the Owner to that cut, but only to the extent permitted by applicable laws and regulations, and shall provide the Owner with all such documentation as may be needed from the Builder to assist the Owner in establishing exemption from such sales of use or other taxes.
- Builder has developed the Contract Price based on cost information provided by reliable vendors and subcontractors at the time of Builder's response to the Owner's RFP. Should Builder be unable to place an order with any vendor for materials or services due solely to a defay caused by the Owner, Naval Architect, Interior Designer, Jan Greeves, or Marine Engineer in finalizing Plans or Specifications subsequent to the excustion of this Agreement, and such delay directly resulted in an increase in the price of such service of material due to cities intervening vendor price increases or changes in currency foreign exchange rates, then, provided the Builder did not contribute in any way to such delay, the Builder shall have the right to be reimbused by the Owner for the incremental costs incorred for such materials or services as a result of such delay. The Builder must provide reasonable decumentation proving any alleged delay provented a timely order at the original price, that the delay directly resulted in a price increase, and the incremental emport of the price increase. Builder shall use reasonable offorts to minimize price risks by seeking U.S. dollar denominated pricing and by

taking product action to minimize risk of vendor price increases, which may include submitting perchase andom or advance deposits to vendors to goaranty pricing.

The Contract Price is inclusive of all taxes (other than sales tax, if any, which g) shall be borne by the Owner), fore, charges, lories and other divises for which the Builder is responsible as provided in ARTICLE 23 that may be imposed on the Vessel and her components prior to delivery of the Vessel to the Owner pursuant to signing, by the parties hereto, of the Prefacel of Delivery and Acceptance (Exhibit D)

ARTICLE 11. CHANGE ORDERS

- The Owner and the Owner's Representative, subject to the finalitations set forth in ARTICLE 4, may after consultation with the Project Coordinator request modifications to the Plans and/or Specifications by submitting a Request for Change Order in the force of Exhibit C.
- The Builder may propose a Change Order under the chromistances contemplated in ARTICLE 7 d), to if the Bailder proposes changes that would improve the Vesset or lower its cost.
- Each Request for Change Order may include proposed additions and/or deletions and/or modification to the Plans and/or Specifications. Change Orders may be requested at any time up to the delivery of the Vessel.
- The Owner or the Owner's Representative shall not order any Change Order when;
 - the Change Order would have adverse consequences on or impair the cafety of the Vessel:
 - the Change Order may preclude the classification of the Vessel by the (ii) Classification Society, or the registration of the Vessel by the Flag State; or
 - the Change Order would have adverse consequences on parts of the Vessel. alwardy built and impressible to modify.
- All Change Orders shall be commenced through submission of a Request for Change Order Form, which is simehed beseto as Exhibit C.
- As soon as reasonably possible but at the latest within ten (10) Business Days after receipt of the Request for Change Order from the Owner's Representative in accordance with this ARTICLE the Project Contribution shall submit to the Owner's Representative a written quotation signed on behalf of the Builder that:
 - specifies the amount of any istresse or decrease in the Comract Price that would result from the proposed Change Order, in the pricing of which the Project Coordinates shall allow for taken and materials and markup for overhead and



profit allowance in the same manner as set forth in ARTKULE 10 p) with respect to Cust Allowance Items:

- provides a deballed breakdown and comparison of the pricing of the materials and labor that would be involved in offecting the proposed Change Order with the pricing of the materials and labor that would be involved in personning the corresponding work as originally contemplated, that is, if the proposed Change Order were not effected.
- specifies the amnum of delay or acceleration, if any, to the Delivery Date that would result from the proposed Change Order, and the revised Delivery Date;
- (iv) specifies the extent, if any, to which weight or sound, or vibration ammanues would be affected by the proposed Change Order.
- (v) specifies say other changes to the Agreement or the Plans and Specifications that would be required to implement the proposal Change Order; and
- (vi) provides the Builder's advice regarding the positive or segutive impact the proposed Change Order may have on the Vessel or its characteristics,

The Builder's cost to prepare, engineer, and estimate the quotation in response to a Request for Change Order submitted by the Owner or Owner's Representative shall be deemed included in the quotation. If the Owner withdraws the Request for Change Order, however, the Builder reserves the right to charge such costs to the Owner.

- Within seven (7) calendar days of receiving the Project Coordinator's quotation, the Owner of Owner's Representative (subject to the limitations of ARTICLE 4 d)) :flatia
 - (i) accept and sign the same.
 - negotiate further with the Project Countinator, or (9)
 - reject the quotation and withdraw the Request for Change Order. (iii)
- Upon the execution of a Change Order by both the Builder or the Project Coordinator (sabject to the limitations of ARTICLE 5 c)) and the Owner or the Owner's Representative (subject to the limitations of ARTICLE 4 d)), the Plans and Specifications, the Contract Price, the Delivery Date, the Vessel characteristics, or other affected provision of this Agreement shall be deemed modified or natended to the extent, but only to the extent, specified in the signed Change Order.
- The Owner shall not be obligated to pay for any Change Order not eighted and somoved in writing by the Owner, or by the Owner's Representative (subject to the

INITIALS OF OWN INTHALS OF BUILDER limitations of ARTICLE 4 d)), and by the Builder or the Project Coordinator (subject to the limitations of ARTICLE 5 c)).

- Any Change Orders made and agreed upon and signed by the Owner and Builder shall be paid for by the Owner, insufar as the Change Order would couse an increase in the Contract Price, fifty percent (50%) at the time the next occurring Milestone Payment is due and fifty percent (50%) at the time of the Milestone Payment next occurring after the completion of the work covered by the Change Order. If a Change Order represents a savings in case, such adjustment shall be credited to the Owner fifty percent (50%) at the time the next occurring Milestone Payment is due and fifty percent (50%) at the time of the Milestone Paymont next occurring after the work represented by such Change Order was originally scheduled to be completed according to the Construction Schedule, or is actually completed, whichever is earlier.
- In the absence of a mountly satisfactory agreement as to a Request for Change Order, a dispute may be reserved for resolution in accordance with ARTICLE 27.
- During the time that a Ruguest for a Change Order is pending, the Builder shall be entitled to continue construction in accordance with the existing Plans and Specifications, until such time as the dispute is resolved or the Change Order is fully executed by both parties.
- Owner shall not be responsible for any cost increase of any kind unless (i) a corresponding Change Order has been fully executed by the Builder or by the Project Coordinator (subject to the limitations of ARTICLE 5 c)) and by the Owner or by the Owner's Representative (subject to the limitations of ARTICLE 4 d)), or (ii) the Builder is enlitted to reimbursement pursuant to ARTICLE 19 f) for incremental cost increases from vendors resulting from delay in finalizing the Plans or Spanifications for which delay the Owner is held responsible.

ARTICLE 12. CONDITIONS AND TERMS OF PAYMENT.

Section 12.1. Warranty Guarantee Account

As security for the Builder's obligations under this Agreement, including its post-delivery warressy obligations under ARTICLE 19, the parties agree that there shall be established a "Wazranty Guarantee Account", which shall be a separate interest bearing escrow account to be maintained by the Owner's counset, Holland & Knight LLP, as Escrew Agent, persuant to the Escrew Agreement in the form of Exhibit I. The Owner shall be entitled to pay to the Escrow Agent, rather than directly to the Buildor, a holdback postion equal to two percent (2%) of each "Milestone Payment". due under Section 12.2, to be deposited into the Warranty Guarantee Account, until the account balance reaches a cap of Pour Hundred Thressand Dollars (\$400,000.00). "The Builder's right to receive the funds hold in such account is conditioned upon the performance by the Builder of all of its obligations reader this Agreement.

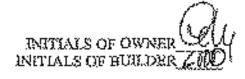
- The Owner shall be entitled to claim against and recover from the Wassanto Guaranty Account any amounts the Owner is entitled to recover in the event of a default by the Builder that results in a temphation of this Agreement by the Owner pursuant to ARTICLE 21. Alternatively, absent such a termination, the Owner shall be entitled to claim against and accover from such account any amounts the Owner is entitied to recover in the event of default by the Builder of any of its obligations with respect to Construction and delivery of the Vessel in conformance with this Agreement, including any watranty obligations under Section 19.1 and pary liquidated damages under Section 192.
- During the Westerdy Period the Owner shall be entitled to submit a claim or claims against the Warranty Gusrantee Account for all such amounts the Owner is entitled to recover in the event of default by the Builder of its post-delivery warranty obligations with respect to the Vessel. Subject always to the limitations of Section 12.1 d), Section (2.1 c), and Section 12.1 f) below, the Bailder shall be omitted to submit a claim or claims against the Wassanty Guarastee Account for reimbersement of the Relider's direct out of pocket costs incurred in performing its post-delivery warranty obligations under Section 19.1.
- Six months after the date of delivery of the Vessel, the Builder shall be extitled to a disbussement from the Warranty Gustanice Account in a net amount, if any, calculated as follows: one-shird (1/3) of the balance that was in the Warranty Guarantee Account immediately after delivery of the Vessel to the Owner, miggs (i) any amounts that may have been disbursed from such account to either the Owner or the Builder, within the six month period on account of warranty or Equidated damages claims made by the Owser, and (ii) the value of any warranty claims or liquidated damages claims that have been asserted by the Owner, in good faith, prior to or during the six month period but which have not yet been paid, either because they have not yet been parced by the Bailder or because they have not yet been resolved parsuant to ARTICLE 27 and paid. If the amount calculated in the manner described always is not a positive number, then no dishusement shall be made to the Builder.
- Twelve months after the date of delivery of the Vessel, the Builder shall be entitled to a disbursement from the Warranty Guarantee Account in a net amount, if any, calculated as follows: two-thirds (2/3) of the balance that was in the Warranty Guarantee Account immediately after delivery of the Verset to the Owner, minus (i) any amounts that may have been disbursed from such account to either the Owner or the Builder within the twelve menth paried on accused of warrance or limitated damages claims made by the Owner, (ii) any amount that may previously have been disbursed to the Bailder pursuant to Section 12.1 d) above, and (iii) the value of any warranty claims or liquidated damages claims that have been asserted by the Owner, in good faith, prior to or during the twelve month period but which have not yet been paid, cifast because they have not yet been agreed by the Builder or because they have not yet been resolved pursuant to ARTICLE 27 and paid. If the amount calculated in the

minumer described above is not a positive minuser, then no disbursement shall be made to the Builder.

- In order that there shall comain partial security for any warranty claims that may urize late in the warranty term, the Builder shall in no case he entitled, prior to the expiration of the Warranty Petiod, to any payment for mimbursement pursuant to Section 12.1 c) or to any disharstonent pursuant to Section 12.1 d) or Section 12.1 e) shove if and to the extent that any such reimbursement or disbursement would result in the aggregate amount of all payments that have been made from, plus all unresolved claims asserted in good faith against, the Warranty Guarantee Agrount exceeding a limit of two-thirds (2/3) of the original balance that was in the Warranty Guarantee Accoust immediately after delivery of the Vessel to the Owner.
- When all timely claims against the Warranty Guarantee Account made by the Owner have been resolved either by agreement with the Builder of pursuant to ARTICLE 27, or if there shall be no outstanding claims against the Wartanty Guarantee Account at the termination of the Warranty Praiod, any rengaining belence of the Warranty Guasmice Account shall be payable over to the Builder.

Section 12.2. Payments

- The Owner shall pay the Contract Price of Twenty-seven Million Ninety-four Thousand Four Foundred Ninety-eight and no/100 Dollars (\$27,094,498.00) in the installments described below (each installment after the Deposit referred to as a "Milestone Payment", and if referring to more than one, "Milestone Payments"), the amount of each of the Milestone Payments being divided and payable 98% to the Builder and 2% to the Escrow Agent, the latter amounts to be deposited in the Warranty Theresies Account as provided in Section 12.1, until the balance in the Warranty Guarantee Account shall reach Four Hondred Thousand Dottate (\$400,000.00). Thereafter, 199% of each Milestene Payment shell be payable to the Builder. The Deposit and Milestone Payments shall be payable at the following times:
 - The initial installment in the amount of five percent (5%) of the initial Contract Price (the "Deposit"), towards which shall be counted the \$500,000.00 deposit paid by the Owner to the Belider persuant to the Letter of Intent dated February 17, 2005, is payable on the Effective Date of this Agreement, provided the Owner has fitel received Builder's Invoice and the Escrow Agreement has first been fally executed by Builder, Owner, and Escrow Agent. No portion of the Deposit shall be paid to the Escrow Agent.
 - Subject to all of the conditions and limitations set forth eleculum within Section 12.2, the installments constituting Milestone Payments 02 - 22 as described below, <u>thus or minus</u> my adjustments to be recognized pursuant to the terms of this Agreement, shall be paid upon the achievement of the respective milestones in the Construction of the Vessel as described below for each such Milestone Payment:



loitial

Gemini Installment Payments:		Contract Price	\$ 27,094,498
Psyment No. / Milesiane Descriptions	Anticipated Dates	Paymont %	Paymont Value
O'l-The Doposit, upon contract signing (with a credit to be recognized for the \$500,000 Depast policy oursess; to the Selter of Intent)	Jun-05	5.0%	\$1,354,725
02-commerce ordering of major experiment sems and packages	J <u>ul-08</u>	7.0%	\$1,898,675
83- joinery subcontract signed	Sep-05	4.0%	\$1,083,730
04-viait cutting siuminum	Oct-05	4.0%	\$1,088,780
05-hull units 21 p/s motel structure compliated		5.0%	\$1,354,735
06-hull onës 43 g/s motal signoture completed	Feb-08	5.0%	\$1,364,725
07-शिक्षी บาทีโล 31 อโล การรัชร์ Structure ดอกรถรังสอบ	May-06	5,0%	\$1,384,725
08-huli units 32 p/s metal structure completed		5.0%	\$1,854,725
09-fiell unite 1 fp/s metal structure completed		5,0%	\$1,354,725
19-bull ynda 61p/s metal skucture completed	<u> </u>	5,0%	\$1,354,725
11-att hulf and house metal structure joined	<u> 5ap-06</u>	5.0%	\$1,354,735
12-engines & generalors mounted on foundations 13-bow and stern thrusters mounted an	Oet-08	5.0%	\$1,354,725
foundations	Nov-96	5.0%	\$1,354,725
44-Installation of thermal inquisition complete	<u>Dec-08</u>	<u>4.0%</u>	\$1,083,789
fö-crew เลซอ เชนญห-in carposity complete 16-Gas Water / Frest Water / Puel Oil major	Jan-07	4.5%	\$1,219,252
Piping (fill/vent) instaged	Feb-07	4,5%	\$1,21 4 ,252
17-hull falting and first printer top cost applied	Mar-07	4.5%	\$1,219,262
18-Sea Water / Frosh Water / Fuel Oil major (Roung runs hydeo tester)	Apr-07	4.5%	<u>51,219,253</u>
19-pawer to ed discriptifion penels	May-07	4.B%	\$1,082,780
20-exterior teak decking installation complete	Aug-07	4.0%	\$1,083,788
21-isuach	\$ep-97	2.5%	3677,362
22-delivery	Nov-07	2.5%	\$677,382

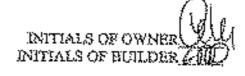
- (iii) The final installment, payable upon the signing of the Protocol of Delivery and Acceptance (the "Relivery Payment"), shall be an amount equal to two and one-half percent (2.5%) of the initial Contract Price, plus or minus any adjustments for the empaid or excredited portions of (i) Cost Altowance Items that, in the aggregate, are more or less than the Cost Altowance, (ii) Change Orders as provided in ARTECLE 11, (iii) any liquidated damages as provided in Section 19.2, (iv) any bonuses as provided in ARTICLE 17 h) and/or in Section 19.3, and (v) any amounts that are due to the Builder under ARTICLE 10 f). The amount of the Delivery Payment shall also be subject to reduction for any amount the Owner is entitled to withhold pursuant to ARTICLE 17 e) with respect to "paneh list" items.
- b) Notwithstending the Milestone Paymont provisions of Section 12.2 a), however, unless orbitwise numbers agreed the Owner shall in no case be obligated to pay any Milestone Paymont earlier than during the calendar month that precedes the month of the Anticipated Date of payment reflected above with respect to that particular Milestone Payment. (By way of example, if the Anticipated Date for a particular Milestone Payment were May 2006, the Owner would not be obligated to pay such Milestone Payment at any time prior to April 1, 2006, even though the work covered by that Milestone Payment might be completed before that date.)
- c) After the payment of the Deposit, Milestons Payments (subject to my adjustments to be recognized pursuant to the terms of this Agreement) will be due five (5) Business Days after the Owner has received the Builder's Invoice and the corresponding Milestone Certificate in the form of Exhibit I, in each case eigned by (i) the Builder or the Project Condinator and (ii) the Owner or the Owner's Representative, and at least every other Milestone Certificate also signed by the Marine Engineer and the Classification Surveyor. Bach invoice for Milestone Payments shall identify the related Milestone completed, and shall also detail any payments or credits due specifically with respect to Change Orders or Cost Alfordance Items, and any other proper charges or credits.
- d) If the Owner in good faith disputes any portion of any Invoice and the Owner and Builder are not able to anticably resolve the dispute by the date payment is otherwise due on the lavoice, the Owner shall be entitled to deposit the amount of the disputed portion with the Escrow Agent. The Escrow Agent shall hold the disputed portion in an interest bearing carrow account antil either the Owner and Builder have amicably resolved the dispute, or the dispute has been resolved parament to ARTICLE 27. Any of such disputed amounts to which the Builder is determined to be entitled shall be disbursed 93% to the Builder and 2% to the Warranty Ocarastee Account (subject to the \$400,000.00 cap), as provided in Section 12.2 a). Account interest on the disputed funds shall be disbursed to the party or parties determined to be entitled to a distribution of the escrowed funds, propositionately accounting to their respective dispibutions.

- e) Subject to the Owner's rights under Section 12.2 d), if the Owner fails to make a payment identified in Section 12.2 a) within thirty (36) days after such payment is due, interest shall thereafter begin to accure on the unpaid portion of such payment at the Default Rate. In the event the Owner is delinquent in payments aggregating at least One Hundred Thousand Dollars (\$100,000,00) for more than thirty (30) days, then the Builder shall be permitted, upon regime to the Owner, to suspend or cases all work on the Vessel tentil the Owner has paid all amounts then owing, in which case the Defivery Date may be extended as and to the extent provided in Section 13.2 c).
- f) All payments to the Builder are to be made in United States Dollars immediately available at the Builder's account specified as the Payment Location. Expenses for remitting payments and any other expenses connected with such payments shall be for the account of the Owner.
- 2) The making of Milestone Payments and/or payments with respect to Change Orders shall in no way imply acceptance of the work performed on the Vessel, or succeptance of the Vessel.
- h) Owner's payment obligations are subject always to the Owner's termination rights under this Agreement.

ARTICLE 13. COMMENCEMENT AND DELAY

Section 13.1. Communications

- The obligations of the parties under this Agreement shall consumence upon, and are conditioned upon the happening of, the following events:
 - (i) the Agreement has become effective pursuant to ARTICLE 30;
 - (ii) the Owner has appointed the Owner's Representative pursuant to ARTICLE 4 s);
 - (bi) the Builder has appointed the Project Coordinator passuant to ARTICLE 5:
 - (iv) the Escrow Agreement has been executed by the parties and the Escrow Agent pursuant to Section 12.1; and
 - (v) the Owner has tendered the Deposit pursuant to Section (2.2 i00).
- b) The Commoncement Date shall be the date on which all the events specified in Section 13.1 a) have been falfilled. Upon such falfillnemt, the Communicement Date shall be identified and stated in a written document signed by the Owner's Representative and the Project Coordinator.



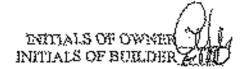
If the Commencement Date does not occur within thirty (50) days after the Effective Date of this Agreement, then a party that has threely satisfied all of the conditions for which it is responsible under Section 13.1 a) shall have the option to terminate this Agreement by giving written notice to the nonperforming party.

Section 13.2. Time For Completion

- Subject to the terms of this Agreement, the Reilder is obligated to complete and delives the Vessel by the Dolivery Date as defined hereig,
- ъ) The Builder shall only be entitled to extension of the Delivery Date to the extent set forth in any Change Order(s) signed by both parties, and/or to the extent agreed pursuant to Section 13.2 c) - Section 13.2 c) below, or to the extent determined in accordance with ARTICLE 27.
- c) If the Bridder considers that any of the following events.
 - (i) any Force Majoure event, or
 - (39)any delay, impediment, or prevention resulting from the acts or omissions of the Owner, Owner's Representative, Navai Architect, Interior Designer, Marine Engineer, Jan Greeves, or any third parties specifically engaged by Owner, including, without limitation, delays in the delivery of Owner Supplied lients of in the payment of Milestone Payments, or
 - (iii)the late delivery to the Builder of contract-required machinary, equipment and supplies to be incorporated in the Vessel where Builder proves that Builder's contracting for such inschinery, equipment and supplies was reasonable and prodest and undertaken in pleasy of time in advance of the need, that the late delivery did not result from late payment or nampayment by Builder or from a vendor's refusal of credit to Builder, that Builder has exercised due diligence and its best editorts in the performance of way acts required of Builder, and that Builder has exercised due diligence and its best efforts in expediting deliveries under Builder's perchase contract or to seeking equivalent substitute performance;

are such as to delay or materially impede the construction of the Vessel and thus estitle the Builder to extension of the Delivery Date, the Builder shall deliver to the Owens's Representative, within fishen (15) Business Days after the occurrence of the relevant event, a notice supported by full and detailed particulars in justification of a claim for a specified extension of the Delivery Date. Failure by the Beilder to timely deliver a claim for extension of the Delivery Date based on the occurrence of any particular event shall preclude the Builder from later ciniming any delay or extension relating to that event.

The Owner's Representative shall, in his reasonable jedgment, approve, reject, or consuent on any timely, fully detailed claim for extension in writing within ten (10) Business Days after receipt of the notice and full particulars.



- d) If the ciain for extension of time is agreed in writing by the Owner or Owner's Representative, the Delivery Date shall be extended accordingly.
- f) If the Owner or Owner's Representative and the Project Coordinator earnot agree us to any claimed extension of the Delivery Date within sen (10) Business Days after the submittal of the response of the Owner's Representative to the Project Coordinator's claim for extension of time made pursuant to Section 13.2 c), the dispute may be referred for resolution in accordance with ARTICLE 27.
- g) In the event of any dispute, the Smilder shall continue the construction of the Vessel during the pendency of any claim for an extension of the Delivery Date or during the pendency of any arbihation proceeding.

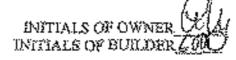
ARTICLE 14. (DELETED)

ARTICLE 15. LAUNCHING

The Builder shall give the Owner's Representative function (14) calcular days notice of any taunching of the Vessel. The notice shall specify the location, date and time of the launching.

ARTICLE 16. DOCK TRIALS, SHA TRIALS, AND ACCEPTANCE

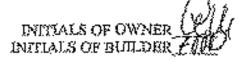
- a) A Trials Committee shall be established by the Owner and the Builder. The Trials Committee will consist of
 - (i) the Preject Condinger,
 - (ii) the Owner's Representative.
 - (iii) the Maxine Engineer;
 - (iv) the Navel Architect.
 - (v) the Classification Surveyor.
 - (vi) a sound and vibration engineer to be nominated by the Owner; and
 - (vii) a marine surveyor to be nessingled by Owner.
- b) The Trials Committee shall attend the dock and see trials of the Vessel on board to witness the performance of the Vessel and to assess the conformity of the Vessel with this Agreement.
- c) The Sea Trials shall be conducted by the Builder in accordance with the guidelines, resting and trials programs set out in the Specifications. The Builder shall



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provide at its own cost all necessary crew, consumables and equipment for the safe operation and navigation of the Vessel during the Sea Trials.

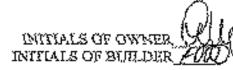
- d) The Builder shall give the Owner and the Trials Committee at least twenty-one (21) extender days written notice of the authorized date, commencement time, and place of the Bea Trials of the Vessel. The Builder will provide a five (5) calculate day notice confirming the actual date, commencement time, and place of the Sea Trials of die Vessel.
- In the event of failure of all or any of the Trials Committee to be present at the Sea Trials of the Vessel after due notice to the Owner has been given, the Owner shall be deemed to have waived its rights to have any massing Trials Committee member on board the Vessel of the Eea Trials and the Suilder may conduct the Sea Trials without the missing Trials Committee member(s) (as the case may be) being present, unless if for special reasons or 'Force Majoure' members were provented from attending, in which case the Builder shall cooperate in the best possible way to make their participation possible. The foregoing provisions of this ARTICLE 16 e) notwithstanding, however, the Owner may elect to postpone the Sea Trials if certain members of the Trials Committee whose presence is required by the Owner are not on board. In that case, however, the Builder shall be entitled to a corresponding extension of the Delivery Date if the Sea Trials are delayed due to (so inability of a member of the Trials Committee, whose presence is required by the Owner, to assend the Sea Trials when originally scheduled.
- f) Within five (5) Business Days after the end of the Sea Trials of the Vessel, the Project Coordinator shall present to the Owner's Representative a trials report stating the performance of the Vessel thering the Sea Trials and the extent of the conformity of the Vessel with this Agreement, including the applicable Rules and Regulations of the Classification Society and the Flag State. The Owner's Representative shall provide his approval or comments, in his reasonable judgment, within five (5) Business Days after actual receipt of the report from the Bubbier.
- g) If the Owner's Representative community on the report are justified, in accordance with this Agreement, the Builder shall make the necessary connections and perform now See Trials as provided in the Specifications.
- If the Project Coordinator contends that the comments of the Owner's Representative on the sea gial report are unjustified, in accordance with this Agreement, the Project Coordinator and the Owner's Representative shall meet to attempt to resolve the differences, failing which the dispute shall be referred for resolveing accordance with ARTICLE 27.
- i) Upon setisfactory conclusion of the Sea Trials, as acknowledged by the Owner's Representative or confirmed in accordance with ARTICLE 27, the Owner's Representative shall execute and deliver to the Builder an acceptance certificate acknowledging that the Builder has fulfilled all of its obligations with regard to the



Construction of the Vessel and accordingly, that the delivery can proceed. If the Sea Trials reveal material defects or deficiencies with the Vessel, however, that the Builder is unable or refuses to remody within minery (90) days after the end of the Sea Trials, the Owner shall have the right to terminate this Agreement and proceed according to ARTICLE 21.

ARTICLE 17. DELIVERY

- The Project Coordinator shall give at least ten (10) days' written notice to the Owner's Representative of the proposed date of delivery of the Vessel.
- The Vessel shall be delivered to the Owner by the Builder safely affoat at a location designated by the Owner within 150 miles of Builder' Shipyard, all delivery expenses as a result of activeding the Vessel in a location other than the Builder's Shipperd being paid by the Owacr.
- Upon delivery the Owner will be obliged to accept the Vessel and pay the outstanding balance of the Contract Price, provided the Builder has supplied the Owner with all of the documents and other home listed on Exhibit O.
- After all documents required under ARTICUE 17 c) have been tendered and ťΣ accepted by Owner, Builder may request that Owner execute the Protocol of Delivery and Acceptance and take possession of the Vessel, even though some mutually agreed upon minor "punch list" items remain to be finished or corrected which items, if not fusished or corrected as the time of delivery and acceptance, would technically prevent the Builder from tendering the Vessel for delivery and acceptance. In this event, Builder shall propose to the Owner a schedule of when, where and how these minor "punch list" items should be dealt with, together with a good faith estimate of the cost to complete such items, which amount the Owner could withhold from the final Delivery Payment pending conrection of such items. The Owner may, at its sole discretion and for any reason, including failure to agree on an appropriate amount to be withhold, determine whether to accept possession and delivery of the Vessel and execute a Protocol of Delivery and Acceptance subject to such a "panch list", or whether instead to insigt on delivery of the Vessel in full conformance with this Agreement.
- In the event the Owner agrees to accept delivery of the Vessel with seight "nunch list" stems outstanding, the Owner shall be cantiled to withhold a mutually agreed sum for completing or correcting all such items at one of the Builder's facilities. or at some other facility agreed upon by the Builder. If the "manch list" items are later corrected by the Builder at one of the Builder's facilities, the Owner shall pay Builder the withheld amounts within ten (10) calendar days of the completion or correction of all such "pench list" items by Builder.
- On the date of delivery of the Vessal, and subject to Owner's receipt of the documents described in ARTICLE 17 c) above and before taking over the Vessel, the



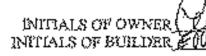
Owner will excepte and deliver to the Bailder the Protocol of Delivery and Acceptance, in the form of Exhibit D, which will declare that

- the Owner has taken postession of the Vessel in full conformity with this Agreement, (except for any exceptions, deficiencies or unfinished items noted by the Owner, or otherwise agreed with the Builder, if applicable);
- (ii) the Bailder has no further daties and responsibilities for the Vessal (except the duties imposed under the Builder's warranties of fife, quality, and performance, and the duty to consect any exceptions, deficiencies or unfinished items noted by the Owner, or otherwise agreed with the Builder, if applicable); <u>කාඨ</u>
- (iii) the Owner has taken full responsibility for the Vecsel, and assumes risk of loss of or damage to the Vessel.
- **E)** The Owner shall then take possession of the Vessel.
- If the Builder tenders delivery of the Vessel, fally completed, to the Owner on or before October 17, 2007, the Owner will pay to the Beilder an early delivery bonus in the amount of \$250,000,00.

ARTICLE 18. TITLE TO THE VESSEL AND RELATED PROPERTY

Netwithstanding anything contained in this Agreement that might be construed to the contrary, inspecifically on payment of the Deposit as provided for in Section 12.2 6)(i), the Vessel as it is constructed and every part thereof, and all Equipment, components, appurtenances, materials and supplies, whether wholly or partially finished or unfinished, from time to time appropriated to or intended for the Vessel or on order from Supplier's or Subcompanions or approved by the Owner or the Owner's Representative, and whether in the Builder's Shipyard or workshops or elsewhere on or off the Builder's premises, and whether or not numbered pursuant to ARTICLE 19 d), shall become and be and remain the property of the Owner, who shall have absolute title therein (but all such property being at the risk of the Builder until acceptance of delivery of the completed Vessel by the Owner), notwithstanding that any of such Equipment, components, appurionances, materials or samples may subsequently be worked upon by the Buildes of Subcontractors of otherwise grocessed or incorporated into the Vessei, and such property shall not be within the ownerable or disposition of the Builder. The Builder shall at all times have a possessory fien or right of retention. thereon for any unpoid portion of the Contract Price then actually due and payable, and for any other monies then due and payable from the Owner to the Reilder heresader. The Builder shall issue to the Owner at the commencement of Construction such letters, affidavits, or other acceptable documents of title and other particulars, all in form acceptable to the Flag State so that the Vessel may be registered in the Flag State as a vessel under construction, titled in the name of the Owner.

- If, notwithstanding the express provision of ARTICLE 13 a), the Vessel or say of the other property described in ARTICLE 18 a) is deemed not to be the property of, and owned by, the Owner, the Builder alternatively hereby grants a security interest in all of such property in favor of the Owner, and further grants a security interest in all of Builders rights in and/or with respect to sad/or axising from any and all deposits or partial or full payments made to Suppliers or Subcontractors relating to any such property, and in the proceeds of all of the foregoing. The Owner shall have the right to file UCC-1 Pipanoing Statements against the Builder covering all such property without the further consent or signature of the Bolider. The security interests granted hereby shall secure all of Builder's obligations to the Owner under this Agreement.
- Except for UCC-1 Financing Statements in favor of Builder as provided in c). ASTICLE 31 d) and statement lions in fever of Builder, no managages or liens or other encumbrances may be registered against the Vessel by the Bridge or any Subcontractor or Supplier without the prior written consent of the Owner, and each subcontract entered into by the Builder shall so state. If the Owner wishes to obtain financing on the Vessel while under construction, the Builder will, if required by any leader (but without waiving its possessary lien and tight of retention and UCC-1 Planneing Statements for unpaid amounts than actually due and payable) subordinate to such londer with respect to all amounts that have been paid to the Builder by the Owner, conditioned however upon all amounts that are actually then due and payable by the Owner under this Agreement having been paid.
- immediately upon any property described in ARTICLE 18 s) becoming or being deemed the property of the Owner uniter the provisions of this ARTICLE 18, the Builder shall supericuously place or cause to be placed on the low of the Vessel, or at such other appropriate place as may be recaired by the appropriate Flag State official, and also on all most other property, the Builder's R) Mamber 85135 for the Vessel, and without prejudice to the Owner's rights hereunder, the Builder shall take all necessary steps to cause all such property to be murabated as aforesaid by itself or by its Suppliers. and Subcontractors with all reasonable expedition.
- The Builder shall so entange its contractual arrangements with all of its Subcontractors and Suppliers that full effect will be given to the provisions of this ARTICLE 18 and, without limiting the foregoing, shall ensure that all much property shall be supplied on the following conditions:
 - that the title to such property supplied by a Subcoentector or Supplier (whether in the course of construction or completed and whether before or after delivery to the Builder) shall vest immediately in the Builder (and thence presumnt so ARTICLE 18 a), immediately in the Owner), subject only to the Subcontractor's possessory lies, if any, for any appaid balance of the nutriese price of such preparty; and
 - that the Subcontractor of Supplier shall not, upon receipt by it of the purchase price for such property, be catified, as against the Owner, to cleim say



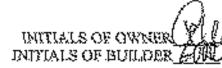
title or lien therein by reason of obligations or liabilities of the Builder to the Subconstantor or Supplier in respect of any other deliveries made by the Subcontractor or Supplier to the Builder, or for any other reason.

- Possession of the Vessel shall be transferred to the Owner on the Delivery Date Pr in accordance with the terms of this Agreement or on such other date as the Owner may be emitted to take possession of the Vessel in accordance with the terms of this Agreement.
- The Builder hereby warrants that on acceptance and delivery of the Vessel, after remissuation of any deficiencies, there will not be any fiens upon or rights in the Vessel or any of its components or appartenances, either for on account of any work done upon or about, or any accident happening upon or about, the Vessel or any of its constituents or appurturances, or for or on account of any other cause or thing or any claim or demand of any kind whatsoever, other than by reason of non-payment of any amount due the Builder by the Owner hareunder, or non-payment of any amount owed by the Owner to its suppliers in respect of any Owner Supplied Items or to any persons specifically engaged by the Owner. If the Builder fails to remove a liea, charge or enoughbance, or fails to establish a bond or other scourity for the same that is satisfactory to the Owner, then the Owner may, but is not obligated to, satisfy the same and deduct the amount factoof, together with any expenses incorred in connection therewith, from the amount of any remaining payment due to the Builder. If the remaiding amounts due to the Builder ore insufficient to permit the deduction of the entire cost and expense incurred by Owner, Builder shall be liable to Owner for the deficiency and will pay same to Owner upon demand.
- Ali plans, specifications, working drawings, technical descriptions, calculations, ħ) test results and other date, and all other such information and documents concerning the design, engineering and construction of the Vessel shall at all times he the property of the Owner or Navai Architect or Interior Designer or Marine Engineer (as may be determined pursuant to the agreements between the Owner and each of them, respectively), and the Builder shall deliver all such items in its possession to the Owner at the time of delivery end acceptance of the Vessel. The Builder shall not bring such items to the knowledge of third parties without the Owner's written consent.
- The Vessel as it is constructed (whether wholly or partly finished or unfinished) and all Equipment, components, appartenances, traderials and supplies appropriated, or intended to be appropriated, to the Vessel whether in the Builder's Shipyard or elsewhere in the control of the Builder or its Subcontractors shall from the Effective Date of this Agreement be and remain at the risk of the Balitler until the Vessel is delivered to and accepted by the Owner. Upon acceptance of delivery of the Vessel by the Owner, risk of loss of or demage to the Vessel shall be transferred to the Owner, and thereafter all responsibilities on the part of the Railder shall cease with the exception of any agreed open outstanding stems, and the warranties of title, quality and performance provided in Sijs Agreement.

ARTICLE 19. WARRANTIES

Section 19.1 Warranties as to Quality

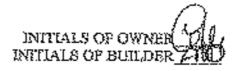
- a) United otherwise agreed pursuant to ARTICLE 17 d), the Builder will repair or replace all defects in the Vessel brought to Builder's attention by Owner prior to the initial delivery and acceptance of the Vessel pursuant to ARTICLE 17.
- Builder, for the duration of the Warranty Period, will repair or replace any defects in materials (other than Owner Supplied Rens) or workrounship that are not in conformity with the Plans, Specifications and Standards and that are discovered on the Vessel within the eighteen (18) month-period following the date on which the Owner executes the Protocol of Delivery and Acceptance of the Vessel (the "Warranty Period"), and firsher warrants that all labor finalished by Builder becomes shall have been performed in a good and workmantike manner and in conformity with the Plans, Specifications and Standards, and that all materials furnished by Builder hereunder and made a part of the Vessel are free of defects, and Builder further guarantees the Vessel against defects of any kind whatsoever in workmanship and/or materials (excluding Owner Supplied Rens, but including Builder's or its Subcontractors' assembly or installation thereof) during the Warranty Period.
- c) The Owner or its duly authorized representative shall notify the Huilder in writing during the applicable Wastanty Period of any defect, within foirteen (14) days of discovery thereof by Owner or an agent, employee or representative of Owner, for which a claim is made under this ARTICLE and the Owner's written notice shall describe the defect in reasonable details.
- d) If the Owner fails to notify the Builder during the applicable time period in accordance with Sention 19.1 c), such failure will not void the warranty as to that defect, but the Builder shall have no liability in respect of any increased or additional damages that result from failure to so notify the Builder.
- a) The Builder undertakes to notify the Owner's captain or the Owner's counsel by e-mail of the impending expiration of the Warmatty Period at least thirty (38) days prior to the expiration of the Warmatty Period.
- The Builder shall not be liable for defects in or damages to the Vessel or its Equipment after delivery of the Vessel, except as specified in this ARTICLE. The Builder shall not be liable for any damage to the Vessel or its Equipment caused by ordinary wear and tear, accident, negligence or willful neglect on the part of the Owner, its employees or agents or any other person including the Vessel's efficient crew or passengers or caused by any work or labor, siteration, addition, modification or repairs performed by any person other than the Builder or any of Builder's Subcontractors. It is hereby specifically acknowledged that workmanship and materials that are in conformity with the Plans, Specifications and Standards shall not be deemed a defect. Any workmanship or materials that in fact prove to be defective during the Warranty



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Period, however, will be deemed not in have been in conformity with the Plans, Specifications and Standarás.

- Builder's warranty shall not apply to Equipment specified in the Specifications or Plans that is manufactured by someone other than Builder but shall apply to Builder's of its Subcontracious' assumbly or application or installation thereof. All warranties of the manufacturers with respect to such Equipment: (the "Manufacturers" Warranties") shall be delivered or assigned or transferred by Builder to Owner at the time of delivery of the Vessei. The Builder shall use its best efforts to ensure that the manufacturers of such Equipment provide Manufacturers' Warranties of at least cighteen (18) months duration from the date of delivery of the Vessel. The Builder shall request the manufacturers of such Equipment to provide the most complete and extensive warranties they regularly offer. In the event that extended Manufacturers Warranties are offered by manufacturers of any of the Equipment, Builder shall negify the Owner of the availability of such extended Manufacturers' Warranties, and obtain such extended Magnifacturers Warranties upon the timely written request of Owner and at the sole cost and expense of Owner. Builder will use its best efforts to assist the Owner in asserting wanterly claims under Manufacturers Warranties, including communicating directly with the manufactorers, and facilitating appropriate warranty documentation and communications.
- 8) If Owner shall notify Heilder of a specific defect in materials or workmanship in accordance with the provisions of this Section 19.1, Builder shall be given complete access to the Vessel and to all records of Owner directly relating to the defect for the purpose of verifying the existence of the specified defect and determining Builder's obligations, if any, to repeat or replace it and the appropriate remady for such defent
- The Builder shall remedy proruptly at the Builder's Shipyard, or at the Builder's option, cause to be remedied at one of the Builder's affiliated shipyards in Fiorida or in New York, or in some other location reasonably convenient to the Owner, and in the Builder's expense, any defect of the Vessel that is warranted under this ARTICLE; provided, however, that if Owner reasonably determines that it is impractical to bring the Vessel to the Builder's Shipyard or to one of its affiliated shipyards in Florida or New York, then Builder shall, at Builder's option: (i) cause the necessary repairs or replacements to be usade at another shipped mutually exceed upon between Builder and Owner, or (ii) allow Owner a sum equivalent to the cost of remodying such defect at the Builder's Shipyayl,
- Because the Vessel is contracted for delivery on or before the Delivery Date, and it would be both inconvenient to the Owner and otherwise impractical to return the Vessel to the Builder's Shippard during the winter months for my necessary work, the Builder undertakes that it will arrange with a shippard in Florida, or in some other incation reasonably acceptable to the Owner, for a service visit for the Vessel, at a time convenient to the Owner within 3-6 months after delivery of the Vessel, and for a sufficient period of time, to sadress my not yet completed "punch list" items that were pennified by the Owner pursuant to ARTICLE 17, and any warranty claims that have



been identified by the time of such service visit. The Builder shall be responsible for and undertakes and agrees that it will thincly pay the cost of all such work,

- For the first year after delivery, the Owner plans to use the Vessel in the Caribbean, and thereafter to transit the Penama Canal and use the Vessel in the Pacific. Builder agrees to comparate with the Owner in sclooling warranty repair facilities in locations reasonably convenient to Owner's intended higgerary.
- Owner agrees not to assert any chaim for less of use resulting from defects covered by the Builder's warranty, provided that Boilder properly repairs or replaces the defective workmanship or materials within a common earth, necessable provide
- 1. totale. m The Builder shall have the right to send its own representatives, at its expense and risk to the Vessel to inspect and report on the nature and extent of defects complained of and, if thought fit, to reasedy them and the Owner shall provide access to the Vessel for this purpose. All travel and living expenses of each engineers and other personnel, and all expenses connected with the acquisition of, provision of, and transport of any materials or parts will be for the Hullder's account and payable in advance or the Builder con arrange for the work to be carried out at Builder's expense at the nearest convenions and suitable yard. The Builder will bear all reasonable expenses if it is necessary to bring the Vessel to the Builder's Shipporti or to the nearest convenient and suitable yard for warranty repairs.
- In the case of defects that render or threaten to render the Vessel inoperable or unserverthy or unsafe, the Builder shall make its inspections within ten (10) days of having been notified of such a defect by the Owner pursuant to Spetion 19.1 c) phove. The Builder shall advise the Owner within five (5) days after examination has been completed of its acceptance of rejection of defects as being within the warranty under this ARTICLE, said any dispute shall be referred for resolution in accordance with ARTICLE 27.
- (G At the Owner's option, the Bailder agrees, at its own cost and expense, so train the Owner's engineer and one crew member in the three month period prior to delivery for familiarization purposes with the Vessel and its systems.
- The Builder's warranty for the Vessel does not cover my defects in the design of the Vessel furnished by the Naval Architect.

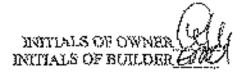
Section 19.2 Warranties as to Characteristics and Performance

- The Buildet warrants that the Vessel will achieve the following characteristics and performance:
 - At delivery the measured weight of the Vessel, determined in the condition "light ship" (as detailed in the Navai Architect's Weight Estimate: GEMINI atisched herete as Exhibit "Q") with all systems commissioned/wet (the

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"Moasured Weight") shall not exceed 215,842 tons (the "Basa Guaranteed Weight"), which amount, however, shall be adjusted apward or downward by (1) the amount, if any, that the net aggregate design weight of the interior (excluding insulation) designed by the Interior Designer and approved in due course by the Owner is greater than or less than the not aggregate weight allowance for the interior (excluding insulation) specified by the Naval Architect of 18.124 metric tons (i.e., the 32 M.T. aggregate designed interior weight allowance, minus a 13.876 M.T. insulation allowance for the rough wall and floor and insulation panels to be incorporated in the interior, equals the 18.124 M.T. net apprente weight allowance for the interior, excluding the mugh well and floor end insulation panels), and (2) the aggregate net amount of any weight increases or decreases agreed musuant to Change Orders (as an adjusted, the "Adjusted Guaranteed Weight");

- The neise levels in the Vessel as measured during the Sea Trials will not exceed these specified under Sections 14.01.01 and 14.01.02 of the Specifications; and
- The vibration levels in the Veszei as measured during the Sea Trials will (iii)not exceed those specified in Section 14.03 of the Specifications.
- b) The Vessel's characteristics may change as a result of Change Orders sutherized under ARTICLE 11. The permissible extent of say change in the Vessel's characteristics, however, must be specified in the document evidencing the Change Orders at the time the document is signed.
- Reflure to meet any of these Vessel characteristics, as modified by any eigned Change Orders, shall result in liquidated damages as follows:
 - Excessive Weight: If the Measured Weight excessls the Adjusted Guaranteed Weight, then at the Owner's option either the Emilder shall pay or the Owner may deduct from the Delivery Payment, by way of liquidated damages and not as a penalty, an amount determined as follows:
 - Α. if the exocus is less than 10 metric tons, no liquidated damages,
 - If the excess is at least 10 metric tons, but not greater than 15 metric toax, the liquidated damages amount shall be \$100,000 mas an additional \$50,000 for every full metric topic over 10 metric topics:
 - C. If the excess is greater than 15 metric tons, the liquidated demages amount shall be \$350,000 plus on additional \$100,000 for every full sactific ton over 15 autific tons.
 - Excessive Noise: If the noise levels as measured during the Sea Trials expect the higher number of the two-decided range specified in Sections 14.01.01



and 14.01.02 of the Specifications for any specified zone, then at the Owner's option either the Builder shall pay or the Owner may deduct from the Delivery Payment, by way of liquidated damages and not as a pensity, an amount determined as feilows:

- If the excess to any specified zone is less than 2 decibels, no Equidated damages for that zone:
- If the excess in any of the specified zones is 2 decibets or more, than the liquidated damages amount for each of sech agoes in which the expess is 2 decibels or more shall be U.S.\$10,000 plus an additional U.S.\$10,000 for every full decibel in excess of 2 decibels above the specified levels in each such specified zone.
- (šiš) Excessive Vilgation: If the respective maximum vibration levels, above 6 Hz, as measured during the Sea Trials in each of the same specified zones in which noise levels are to be measured exceed the respective maximum vibration levels specified in Section 14.03 of the Specifications, then at the Owner's option cither the Builder shalf pay or the Owner may deduct from the Delivery Payment, by way of lightisted damages and not us a possity, an annuant determined as foilows:
 - À. If the maximum vibration level, measured at the primary ship structure (transverse web frames or longitudinal girders) above the propellers exceeds the ISO level of 4 man/sec [RMS] with the Vessel crussing at 80% MCR output, then for each full 1 mm/see [RMS] above 4 stim/seg [RMS], the amount of \$20,000;
 - И. If the maximum vibration level, measured in the specified zones is the accommodation areas (tables etc. not included) excepts 1.0 nan/asc IRMS) with the Vessel craising at 80% MCR in any of each specified zones, then for each full 0.5 mm/sec [RMS] above 1.0 mm/sec [RMS] measured in each such zone, the amount of \$20,000;
 - C. If the reaximum vibration level, measured in the specified sones in the accommodesion areas (tables etc. not included) expected 0.5 mm/sec. [RMS] with the Vessel at anchor condition in any of such specified resear then for each full 0.25 mm/sec [RMS] above 0.5 mm/sec [RMS] measured in each such zone, the amount of \$20,000.
- The Owner shall be emitted to deduct any liquidated damages specified herein. from any amounts owed to the Builder upon delivery and acceptance under the terms of this Agreement. If the amount of the liquidated damages owed by the Builder to the Owner exceeds the amount otherwise owed agon delivery of the Vessei by the Owner to the Builder under the terms of this Agreement, then the Builder shall pay the difference to the Owner at the time of acceptance and delivery of the Vessel.

Section 19.3 Rooms for Performance Better than Specifications

- Success in achieving reductions below the warranted maximum levels of any of these Vessel characteristics, as modified by any signed Change Onlers, shall result in bonus payments to Builder as follows:
 - Reduced Weight: If the Messared Weight is less than the Adjusted Characteri Weight, then the Owner shall pay the Builder an amount determined ෂා රට්ගන:
 - A. If the reduction in weight is less than 10 metric tens, no bonus;
 - If the redisclion in weight is at least 10 metric tens but not greater than 15 metric tons, the bonus amount shall be \$100,000 plus an additional \$50,000 for every full metric ten of weight reduction achieved over 10 metric tons;
 - C. If the reduction in weight is greater than 15 metric tune, the bonns amount shall be \$350,000 plus an additional \$100,000 for every fail metric ton of weight reduction achieved over \$5 metric tonnes.
 - Reduced Naise: If the coise levels as measured during the Sea Trials are less than the lower empher of the two-decibel range specified in Sections 14.01.01 and 14.01.02 of the Specifications for any specified zone, then the Owner shall pay the Builder on amount determined as follows:
 - A. If the reduction in any zone is less than 2 decidels, no homes for that engag
 - If the reduction in any one or more zones is 2 decibels or more, then the bonus arected for each such zone shall be \$10,000 plus an additional \$10,000 for every full decibel in excess of 2 decibels below the specified levels in each such specified zone.
 - Reduced Vibration: If the respective maximum vibration levels, above 6 Hz, as measured during the Sea Trials in each of the same specified zones in which moise levels are to be measured are less than the respective maximum vibration levels specified in Section 14.03 of the Specifications, then the Owner shalf pay Builder an amount determined as follows:
 - If the maximum vibration level, measured at the primary ship structure (transverse web frames or longitudinal girders) above the propolicis is less than the ISO level of 4 min/sec (RMS) with the Vessei craising at 80% MCR output, then for each full transsec (RMS) below 4 num/sec (RMS), the amount of \$20,000;

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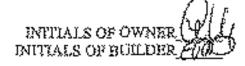
- If the maximum vituation level, measured in the specified nones in the accommodation areas (tables etc. not included) is less than 1.0mm/sec [RMS] with the Vessel cruising at 80% MCR in any of such specified zones, then for each full 0.5 mm/sec [RMS] below 1.0 mm/sec [RMS] measured in each such zone, the amount of \$20,000;
- If the maximum vibration level, measured in the specified zones in the accommodation areas (tables etc. not included) is less than 0.5ppm/sec. (RMS) with the Vessel at anchor condition in any of such specified zones, then for each fuli 0.25 mm/sec [RMS] below 0.5 gun/sec [RMS] measured in each such zone, the amount of \$20,000.

Section 19.4 Security for Warranty Obligations

The Wattanty Guerantee Account established and the Escrow Agreement executed pursuant to Section 12.1 shall partially secure the due fulfillment of Builder's warranty obligations under ARTICLE 19. The existence of the Warranty Guarantee Account shall in no way street Builder's responsibilities and liabilities as provided for in this ARTICLE.

ARTICLE 20. DEFAULT ON THE PART OF THE OWNER

- a): The Owner shall be deemed to be in default if:
 - The Owner fails to pay the Builder, or to demosit with the Escrow Agent pensoant to Section 12.2 a) or Section 12.2 d), any amounts due under this Agreement aggregating at least One Hundred Thousand Dollars (\$100,000,00) within Clisty (20) days of the due data.
 - The Owner is in material breach of any of its other obligations under this Agreement and that breach continues for more than thirty (30) days following receipt by the Owner of a notice from the Builder requesting that the breach be remedied:
 - (iži) The Owner fails to make any payment required at delivery or to accept and take delivery of the Vessel within thirty (30) days from the date on which it is tendered for delivery without valid grounds pursuant to the term of this Agreement; or
 - The Owner becomes bankrupt or goes into liquidation (other than for the purpose of amalgamation of reconstruction) or has a receiver appointed and the trustee, assignee, liquidator or receiver as the case may be fails within sixty (60). calendar days to make arrangements satisfactory to the Builder for continued payment of emounts due under this Agreement.



- If the Owner defaults in payment of any amount due under this Agreement within thirty (30) days of the due date then the Owner shall pay interest thereafter on the uspaid amount at the Default Rute until paid. In the event the Owner is in default on payments aggregating at least One Hundred Thousand Dollars (\$100,000.00) the Builder shall be permitted upon notice to the Owner, to suspend up cease all work on the Vessel until the Owner has paid all amounts then owing, in which case the Delivery Date may be extended as and to the extent provided in Section 13.2 c).
- If the Owner is decased to be in default passeant to ARTICLE 20 a) the Builder may deliver to Owser a written notice detailing the default asserted and notifying the Owner of its intention to terminate this Agreement if such definit is not timely cared. If, after giving such notice of detault and opportunity to cure, the default continues for more than fifteen (15) days, then, in such event, the Builder may, at its option, terminate this Agreement by serving upon the Owner written notice of termination and upon receipt of that written notice of termination by the Owner, this Agreement shall forthwith terminate. The Builder shall thereafter have full right and power to dual with or dispose of the Vessel and the Equipment provided always that the Builder does so in a commercially reasonable manner, which may include completing and then selling the Vessel, or contracting with a new owner for the completion of the Vessel, or selling the Vessel in its incomplete state.
- If following termination of this Agreement the Vessel is sold by the Builder, either completed or incomplete, the Bailder shall retain from the sale proceeds all costs and expenses directly and responsibly incurred by reason of the Owner's default, play all amounts in accers, plus interest at the Default Rate on any arcounts in access, plus all costs responsibly incurred in the sale of the Vessel not previously or otherwise recovered. If the Builder completes the Vessel before selling it, the Builder shall also be cutified to retain from the sale protocus un amount equal to the sure of all the additional Milestone Payments that would have come due under this Agreement subsequent to the Owner's default but for the Owner's default. The balance of may proceeds after deduction of the foregoing amounts shall be paid to the Change, H. restwithstanding a commercially ressousble sale, the sale proceeds shall be insufficient to pay the obligations of the Owner to the Builder in full as provided besein, the Owner shall remain liable to the Builder for any deficiency.
- In the event of termination by the Builder, in addition to any other rights that the Builder has under this Agreement and/or other tights which may be conferred upon the Doildes at law or in equity, the Builder may
 - (i) retain the Deposit in full; and
 - sue the Owner for any papaid damages, including but not limited to all costs, charges, expenses, losses, damages (including lost profit and averbead elements of all payments not paid by the Owner to the Builder).

f) The remedies provided under this ARTICLE 20 are campletive, not mutually exclusive, and the Builder may exercise, either separately or at the same time, any one, or more, or all of its tights or remedies hereunder, and such exercise shall be without prejudice whatsoever to any other rights it may have under this Agreement or pursuant to law.

ARTICLE 21. DEPAULT ON THE PART OF THE BUILDER

- a) The Builder shall be deemed to be in default if:
 - (i) the Builder suspends or courses Construction of the Vessel for more than thirty (20) days without being expressly emitted to do so on account of any action, omission or default by the Owner pursuant to the terms of this Agreement;
 - (ii) the Builder refuses or persistently neglects to comply with any reasonable written notice or reasonable instruction that the Owner or Owner's Representative is entitled to give pursuant to the terms of this Agreement, or is in material breach of any other term or terms of this Agreement and the breach continues for more than thirty (30) days following receipt by the Builder of a notice from the Owner requesting that the breach he remedied (except that, if the Builder fails to complete the Vessel within one hundred and twenty (120) calcular days after the Delivery Date, the Owner may declare the Builder in default without providing an opportunity to care);
 - (iii)—the Builder's lease dated September 11, 2000 with The Bridgeport Port Authority ("Lessor") for the premises on which the Builder's Shippard is located ("the Shippard Lease") expires and is not renewed, or is terminated by the Lessor, or the Lessor threatens eviction because the Builder is in material default under such feater; or
 - (iv) The Builder becomes insolvent or backrapt or goes into fiquidation (other than for the purpose of smalgamation or reconstruction), or the Builder suspends payments or cases to carry on its husiness or makes any special arrangement or composition with its creditors, or has a receiver appointed and the trustee, assignee, liquidator or receiver as the case may be fails within sixty (60) calcular days to make arrangements satisfactory to the Owner for continued performance of the Builder's obligations under this Agreement.
- b) If a default of the Builder under this ARTICLE occurs, then the Owner may deliver to the Builder a written notice detailing the default asserted and notifying the Builder of its intention to terminate this Agreement if such default is not timely cared. If, after giving such notice of default and opportunity to care, the default continues for more than litteen (15) days, then, in such event, the Owner may, at its option, terminate this Agreement by serving upon the Builder written notice of termination and upon receipt of that written notice of terminates that forthwith terminate.

- c) On termination, the Owner shall be entitled to, at its option
 - take possession of the Vessel and remove it from the Builder's Shipyard (i) for completion alsowhere; or
 - take passession of the Vessel and perform such work with respect to the Vessel at the Builder's Shipperd as the Owner might consider appropriate to complete the Vessel to a stage where it can safely be faunched and removed for completion elsewhere; or
 - $\{iii\}$ take possession of the Vessel and sell to a third party.

all without prejudice to any claims for damages that the Owner may have against the Builder.

- હે) If the Owner elects to take possession of the Vessel as provided in ARTKIE 21. c), the Builder shall provide the Owner and its contractors or subcontractors or employees without charge access to euler and work, at the Owner's expense, at the Builder's Shipyard, and shall make available to them without charge the Builder's facilities, plant, equipment, Travelift, machinery; tools and other things that are owned or lessed by or otherwise possessed by the Builder that are necessary or useful for the completion of the Vessel to a stage where it can safely be launched and removed , and for launching and removal of the Vessel. The Builder shall forthwith turn over to the Owner possession of and the Owner may take possession of the Vessel, the Owner Supplied Items, all Equipment and any other items whatsoever acquired for or intended to be incorporated in the Vessel, whether or sol marked as required by this Agreement, the Plane, the Specifications, all construction drawings, detail drawings, sketches, the Construction Schedule, technical descriptions, engineering information, calculations, test results or other data or information or documents concerning the design and Construction of the Vessel, whether paper or electronic former, all manuals, guides, instruction dooks and wastury documentation for all machinery, equipment or other items incorporated or to be incorporated in the Vessel, and any and every other item or thing of any neuro whetevever intended to be incorporated in the Vessel, whether to the procession of the Builder, its Subcontractors or vendors, or whether in transit between The Builder shall also fully cooperate with the Owner and any governmental authority to the extent necessary to permit the Vessel to be launched and removed from the Builder's Shippard to any other shippard, as the Owner may clock
- The Builder shall use its best cifforts to famish to the Owner concurrently with the execution of this Agreement, or as soon thereafter as is possible, a written undertaking from the Lessor to the Owner providing
 - that the Lessor will deliver to the Owner, as substantially the same time as it delivers the original to the Builder, a copy of any notice in writing of any default by the Builder under the Shippard Lenne that could result in the swiction of

the Builder from the lessed premises, or in the termination or non-renewed of the Shipyard Lease;

- that the Owner shall have the right, but not the obligation, to care any deficult by the Builder under, and to reinstate the Shippard Lease; and
- that the Lesson will give the Owner thirty (30) days advance notice in writing of the Lesson's indention to remainste or not to renew the Shippard Lesse.
- If this Agreement is in default and is terminated by the Owner on the grounds. of Builder's default under, or the expiration of, at the termination or non-tenewal by the Lessor of the Shipyani Lease, then Builder agrees that it will, upon the sequest of the Owner, cooperate fully with the Owner and Lessor toward achieving the objective of allowing the Owner to lease directly from the Leason sufficient space and facilities for such time as the Owner may determine, in order to permit the Owner to work on or complete the Vessel to any stage of completion that the Owner may elect. The Builder's cooperation shell include, as applicable, the execution and delivery of any appropriate amendment to the Shipyard Lesse (without incurrence of additional obligations by the Builder), or a termination and release of the Shippard Lease, or the exposition and delivery of such other documents or instruments and the taking of such other actions as may be necessary or appropriate to permit the Owner to lease edequate space and facilities directly from the Lessor (provided, however, that the Builder shall not be required to incur any additional obligations in connection therewith). Such cooperation shall also include Builder peacefully vacating such space and facilities and/or transferring possession thereof to the Owner, along with the things identified in ARTICLE 21 d).
- In the event of termination of this Agreement by the Owner, in addition to any other rights that the Owner has under this Agreement and/or other rights which may be conferred upon the Owner at law or in equity, the Owner may
 - recover from the Wintenty Custantee Account such portion of its demages. Œ. as may be available from the fonds deposited in such account; and,
 - (ii) and the Builder for any respaid duranges, including but not limited to att costs, charges, expenses, losses, damages (including the profit and overhead. elements of all payments paid by the Owner to the Builder), or liabilities (including estimated contingent liabilities) of the Owner relating to the Builder's design and Construction of the Vessel.
- The remedies provided mater this AKTICLE 21 are complative, not mutually explusive, and the Owner may exercise, either separately or at the same time, any one. or more, or all of its rights or remedies bereander, and such exercise shall be without projudice whatspever to any other rights it may have under this Agreement or purpose. to law.

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ARTICLE 22. INSURANCE; INDEMNIFICATION

- As of the Effective Date and until the delivery the Builder shall cause the Vessel. and the Equipment and the Owner Supplied Berns to be insured to their full replacement value at any time though construction of the Vessel under a separate Builder's Risks policy or policies covering this Vessel and no other vessels, and underwritten by first class underwriters acceptable to the Owner. The policy(ics) shall be issued in the joint names of the Builder and the Owner as named insureds and loss payees, as their interests may appear. The insurance must cover all risks and liabilities customarily insured against under, and shall be in the form of standard Builder's Risk policies including, without limitation, Workers Compensation, Employer's Liability, Commechensive General Liability, Strikes, Lockouts and other Labor Stoppages, Halfand Machinery, Protection and Indomnity, and such other risks as may be reasonably requested by the Owner. There shall be a breach of warranty endorsement in favor of the Owner. The insurance policy shall be an "occurrences" policy, not a "claims made" posicy. The policy shall cover Owner Supplied Items from the time delivered to the Builder's Shipyard. The policy shall have a deductible of no more than Twenty Five Thousand Dollars (\$25,000.00). The policy must include comprehensive general liability insurance (including crew liabilities insurance) with combined single limits of at least the current value of the Vessel up to Thirty Million Dollars (US \$30,000,000.00) with the Owner named as no additional insured, covering risks associated with the Vessel, and construction of the Vessel, including the associated tests and trials. The Builder shall furnish to Owner copies of all refevant insurance policies and endorsements from time to time in effect, and copies of such policies and endorsements in effect as of the Effective Date of this Agreement shall be attached hereto as Exhibit G.
- All promiums for the insurance shall be payable by the Builder. The Owner shall have the right, but no obligation, to make any insurance premium payments not made by the Builder, and the right to immediate reimbersement from the Builder or deduction from any remaining installment of the Contract Price for any insurance premium payments made by the Owner. All insurance policies shall require the insurers to give an undertaking that the Owner shall have no liability for premiums, notwithstanding that it is a named assured, and to provide thirty (30) days prior written notice to the Owner of any non-renewals, nonpayment of premiums, cancellation, lapse or modification of any such policy. The Owner shall have the right, but not the obligation to care.
- In the event that the Vessel suffers damage by any cause whatsoever prior to Delivery and that damage does not constitute an actual or constructive total loss of the Vessel, the Builder shall repair the damage in accordance with this Agreement, the Specification and the other Standards, and to the satisfaction of the Classification Society and the Owner's Representative. If the damage is covered by the Builder's Risk insurance, all insurance proceeds shall be payable to the Builder and shall be utilized by the Builder exclusively toward the prompt repair and restoration and

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Construction of the Vessel in accordance with this Agreement and the Plans and Specifications and the other Standards, and to the satisfaction of the Classification Surveyor and the Owner's Representative (provided that the Builder and the Owner shall first have agreed in writing as to a reasonable extension of the Delivery Date for any delay directly resulting from the partial loss).

- Nothing in this ARTICLE shall be construed as extending the Delivery Date (unless by express written agreement) or discharging the Builder from any of its duties and liabilities to construct the Vessel strictly in accordance with the requirements of this Agreement, the Plans and Specifications and all other Standards.
- In the event that the Vessel becomes an actual or constructive total loss within the terms of the Builder's Risks insurance, the Owner shall be entitled to receive directly from the insurers all insurance proceeds up to an amount (the "Insured Amount") equal to the total of (i) all payments previously made to the Builder, plus (ii) the total delivered and installed costs of all Owner Supplied Bergs. If for any reason facinsurance proceeds are less than the Insured Amount, Builder shall be liable to Owner for any and all shortfall. If the Vessel has become an actual or constructive total loss, Owner, in its sole discretion, may clock either (i) to have the Builder commence within thirty (30) days after Owner's receipt of the Insured Amount construction of a new Vessel for the Owner putsuant to the terms and provisions of this Agreement, with the same Contract Price but with a new mutually agreed Delivery Date, or (ii) to terminate this Agreement, whereupon the Owner shall be relieved of any further obligation to the Builder under this Agreement. Upon payment in full of the Insured Amount to the Owner, title in what remains of the Vessel and the Equipment and the Owner Supplied from shall be transferred to the Builder, and the Builder will be entitled to retain any balance remaining of the insurance proceeds received or payable in respect of the loss. The Owner shall cooperate in good faith with the transfer of title of the Vessel to the Builder as provided herein.
- In addition to but not limited to the foregoing provisions contained in this ARTICLE, the Builder shall and does hereby agree to defend, indemnify and hold humiless the Owner and the Vessel against all actions, suits, claims, demands, costs or expenses on account of personal injury, death, or damage to or loss of property arising prior to the delivery of the Vessel to the Owner, in the course of Builder's performance of its obligations under this Agreement, except to the extent of the Owner's negligence or the negligence of the Owner's employees, representatives, agents, or subcontractors. This indemnification shall extend to any action on the part of any Federal or State Government or Municipal Authorities, or otherwise, caused by any pollution of land, waters, bay, harbor, river or tributary including by oil or fuel spillage or refuse discharged from the Vessel, at any time prior to delivery. The Builder shall precure insurance under "occurrence" policies and not under "claims made" policies with insurers and in amounts approved by the Owner, and in the names of the Builder and the Owner as their respective rights and interests may appear, whereby the Owner and

the Builder are indemnified against liability in respect of the matters referred to in this ARTICLB 22 f),

The Builder shall notify the Owner within five (5) Business Days of any damages to the Vessel or to the Equipment or to the Owner Supplied Repris, and/or any claims made.

ARTICLE 23. TAXES, DUTIES, AND CONTRACT EXPENSES

- Builder shall pay all local, state, and federal taxes, workers' compensation, social security or old age henefits of any nature, uncomployment tax, and any other similar taxes, charges, assessments and contributions of any kind now or hereafter payable in connection with the Construction of the Vessel imposed upon, or with respect to, or measured by, materials and labor utilized in the Construction of the Vessel hercunder, or the wages, salaries or other remunerations paid to persons employed in connection with the performance of the Agreement, and Builder shall indemnify and hold Owner humless from any and all liability and expense by reason of Builder's failure to pay such taxes, charges, assessments and contributions.
- Owner agrees to pay, or to the extent Builder is required to pay, to indomnify Builder for the navmeets of, any sales taxes or similar fees, duties or charges arising from or in connection with the sale of the Vessel and the transactions contemplated by this Agreement. The Builder shall use its best efforts, however, to assist the Owner in achieving exemption from any such taxes, as provided under ARTICLE 10 c), to the extent permitted by applicable laws and regulations..

ARTICLE 24. NOTICE AND COMMUNICATION

Any notice to be given to the Builder under the terms of the Agreement shall be served in writing in the English language (by fax or e-mail confirmed by letter, or by registered mail, or delivered against receipt) at the following address, unless otherwise notified in writing by the Builder:

> Derecktor Shipyards Conn., LLC 837 Seaview Drive Bridgeport, Connecticut 06607 Atta: Mr. Paul Derecktor

Phone: 203-336-0108 Fax: 203-362-1464

v-mail; Pauld@derecktor.com

With a copy to:

Ellenoff Grossman & Schole LLP 370 Lexington Avenue New York, New York 10017 Attn: Barry Go)saman, Esq.

Phone: 212-370-1300 Pax: 212-370-7889

Rmail: bigrossman@egsllp.com

Any notice to be given to the Owner under the terms of the Agreement shall be served in writing in the English language (by fax or e-mail confirmed by letter, or by registered meil, or delivered against receipt) at the following address, unless otherwise notified in Writing by the Owner.

> Gemini II LTD. Cayman Business Park, A7, P.O. Box 10300 APO. Grand Cayman. Cayman Islands

With copies to:

Anthony Marlon 9025 Greenshoro Lago Les Vogas, Nevada 89134

Phone: 702-242-7180 Fax: 702-242-7915

E-mail: cco104@sierrahealth.com

and to

Lars Forsborg, Esq. Holland & Knight LLP 195 Broadway, 24th Floor New York, NY 10007

Phone: 212-513-3316 Fax 212-385-9010

E-mail: lars.forsberg@liklaw.com

ARTICLE 25. CONTRACT DOCUMENTS

- In the event of any inconsistencies among the Vessel Construction Agreement, the Plans, the Specifications, and the Equipment List, the following is the governing order of such contract documents:
 - the Vessel Construction Agreement, (i)
 - (ii) the Specifications;
 - (iii) the Plans,
 - (iv) the Equipment List,

ARTICLE 25 is effective through the life of this Agreement unless otherwise noted in writing.

ARTICLE 26. ASSIGNMENT

The Builder may not, without the express written consent of the Owner, assign its rights under this Agreement or any part thereof or any benefit or interest therein or thereunder, and any attempted or purported assignment will be nell and void. The Owner shall have the right to assign any of its rights under this Agreement and shall notify the Builder in writing of any such assignment within a reasonable time after any such assignment. Any such assignment by the Owner shall not relieve the Owner of its obligations under this Agreement, unless the Builder otherwise agrees in writing.

ARTICLE 27. SETTLEMENT OF DISPUTES

- Any disputes between the Builder and the Owner arising from this Agreement shall be resolved in accordance with this ARTICLE 27. As a first resort, the parties or duly empowered representatives shall meet in person to attempt to amicably negotiate and resolve the dispute. Failing amicable resolution, the parties may thereafter mutually seek to resolve the dispute by mediation. Mediation is not mandatory, however, and either party may instead initiate orbitration in accordance with remaining provisions of this ARTICLE.
- If any question or difference shall arise between the parties as to the meaning of. or the rights or obligations of the parties in relation to any technical requirements or technical provisions of this Agreement (including, but without limiting the generality of the foregoing, disputes as to whether the Vessel suffers from any defect and/or complies with the Agreement when tendered for delivery), at the written request of either party, the same may be referred to a mutually acceptable independent marine professional, whose decision shall be binding. Alternatively, the parties may by mutual agreement refer the matter to the senior surveyor of the Classification Society at New York, NY, for his interpretation and decision, in which case his decision shall be bindice.

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- In the event the question or difference is other than of a technical nature, or if the parties cannot agree whether a particular question or difference is of a technical nature suitable for decision under ARTICLE 27 b) above or cannot agree on a person to whom it should be referred, or if the senior surveyor of the Classification Society declines to decide the issue, then the dispute shall be referred to arbitration pursuant to ARTICLE 27 d) below,
- d) Any question or difference between the parties not resolved pursuant to either ARTICLE 27 a) or ARTICLE 27 b) above shall be resolved by either a matually acceptable sole arbitrator, or if the parties cannot agree on a single arbitrator, by a panel of three neutral arbitrators, one appointed by each of the parties and the third chosen by the two appointed by the parties. The arbitrations shall be held in accordance with the rules of procedure of the Society of Maritime Arbitrators, and applying United States Maritime Law as the substantive law. This arbitration proceeding shall be conducted in the English language at New York, New York, or at such other location as the parties may mutually agree, and the parties shall be entitled to be represented in the arbitration by counsel of their choosing.
- Either party may initiate arbitration under ARTICLE 27 d) by sending written notice to the other of election of the right of arbitration and specifying the dispute to be arbitrated.
- The dispute shall be referred to a sole arbitrator if the Owner and Builder agree upon one arbitrator within tan (10) calendar days after receipt of the notice of dispute. If a sole aromator is not so appointed, then within five (5) calendar days thereafter, the Builder and the Owner shall each appoint an arbitrator and witten five (5) calcular days thereafter the two appointed orbitrators shall jointly appoint an umpire.
- If one party fails to appoint an arbitrator within the period of five (5) calendar days, an arbitrator shall be appointed for it by the Society of Maritime Arbitrators. If neither party appoints an arbitrator within the five (5) calendar days, then the notice shall be deemed to have lapsed. References in this ARTICLE to "the arbitrator" shall include, where appropriate, two arbitrators and the tompire.
- The arbitrator or arbitrators shall have full power to review and rule upon any issues arising out of or relating to this Agreement. The parties and the arbitrators shall use their best efforts to complete the arbitration within thirty days. The arbitrators' decision shall be given in a written award together with the reasons for their decision.
- i) The award in the arbitration shall be final and binding on the parties.
- j) The arbitration panel shall have authority to award reasonable attorneys fees.
- No party shall be considered in default hereunder during the pendency of arbitration proceedings relating to a disputed default, and if found in default by the arbitration panel, shall be given ten (10) Business Days from receipt of the arbitration

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award to cure such default. The prodency of arbitration proceedings shall not justify extension of the Delivery Date unless (i) the Builder prevails, and (ii) the arbitration panel, at the Builder's request, finds that an extension is justified, and then only for the number of days the arbitration panel so determines.

ARTICLE 28. INVALIDITY

If any term or terms contained in this Agreement shall be void, illegal or unenforceable in any respect under the applicable law, the remaining terms shall remain valid, legal and enforceable and shall not in any way be affected or limited by that invalidity.

ARTICLE 29. CONFIDENTIALITY

- The Builder and the Owner shall keep the terms and conditions of this Agreement, including, without limitation, the Contract Price, in strict confidence and therefore shall disclose no information concerning this Agreement to any outside party save as required by law or as permitted in writing by the Owner. Any publicity relating to this Agreement or to the project contemplated by this Agreement or to the Vessel and that is initiated by or that in any way involves the Builder must be approved in advance by the Owner, in writing, except as otherwise provided to ARTICLE 31 a). The Owner may, in its absolute discretion, decline to permit any such publicity (except as otherwise provided in ARTICLE 31 a)).
- The Builder shall not disclose the identity of the Owner or the Owner's principal of any member of Owner's family for any purpose, including, without limitation, promotion or marketing of Builder's products.
- Further, each Party shall cause any director, officer, employee or agent involved with this transaction to agree to do the same.
- d) The Owner shall not release into the public domain any photographs of the Vessel under construction without the prior written consent of the Builder, which consent shall not unreasonably be withheld.
- The foregoing restrictions, however, shall not apply to disclosures made- (a) to employees or professionals requiring such information to assist the transaction, to maintain books and records, or to prepare tax returns, or (b) to comply with subpoents or discovery requests issued within any legal proceedings or (c) of publicly available information.
- If the Builder breaches the requirements of this ARTICLE, it shall be liable to the Owner and the Owner's principal (who shall be deemed a third party beneficiary of this ARTECLE) for any resulting loss, damage, or other consequences of its actions.

ARTICLE 30. EFFECTIVE DATE

This Agreement becomes effective wheat it is signed by both the Owner and the Builder.

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- <u>Demonstration</u>. The Owner (without being required to disclose his identity) shall permit the Builder, on the giving of reasonable prior notice, to publish pictures and a brochure of the completed Vessel for advertising purposes. The Builder shell coordinate with the Owner to ensure that the Builder's access to the Vessel does not interfere with the Owner's use and enjoyment of the Vessel.
- Governing Law. This Agreement shall be governed by and construed in accordance with the substantive laws of the State of New York.
- <u>Subpulsaion to Jurisdiction</u>. Failing voluntary submission to erbitration, any action, suit, demand or proceeding instituted shall be instituted and liftigated within the jurisdiction of the federal or state courts located in New York, New York solely to compel arbitration, and each of the parties, by the execution of this Agreement, hereby consents and submits to the exclusive jurisdiction of the federal or state courts located in New York for that limited purpose. Neither party shall raise as a defense to any action, suit, demand or proceedings to compel arbitration which is initiated in any forem as provided above the lack or jurisdiction of the courts of such forem over the person of such party for that limited purpose.
- Lien. The Builder shall have the right of possession of the Vessel and property owned by the Owner in the Builder's possession, custody or control, for the whole or part as the case may be, of any and all amounts due and owing to the Builder and mustanding at any time from the Owner under or in connection with this Agreement up to the time the Protocol of Delivery and Acceptance is signed. Builder shall have the right to file UCC-1 financing statements against the Owner covering the Vessel, to the extent of such indebtedness, without the further consent or the signature of the Owner.
- Limitation of Liability. In no event, whether based upon contract, tort, warranty, or otherwise, shall Owner or Builder be liable for or obligated in any manner to pay special, consequential, panitive, incidental, indirect or similar damages for any reason in connection with this Agreement and the transactions contemplated hereby except as otherwise set forth in this Agreement. Both the Builder's and the Owner's obligations hereunder shall be limited to those expressly set out and assumed by Owner and Builder, respectively, under this Agreement.
- Broker Claims. The Builder and the Owner each represent to the other that there is no broker claiming through it who is entitled to any brokerage commission in connection with this Agreement.
- Further Assurances. Each party shall sign all such documents and do all such things as may be necessary or desirable to give full effect to this Agreement.
- Entire Agreement. This Agreement shall constitute the entire agreement between the parties and shall supersede all previous negotiations and all other writings

INITIALS OF OWNER INITIALS OF BUILDER on the subject of the work covered hereby (except as to the Plans and Specifications which may be modified by oral agreement) and shall not be affected or modified by any oral agreement.

- Modifications. No modification, change orders or emendment of this Agreement shall be of any force or effect unless the same is in writing and signed by all parties and otherwise is effected in accordance with the provisions of this Agreement,
- Time for Performance. The parties agree that the time frames and time limits established in this Agreement for the performance of their respective obligations are reasonable periods for performance of those obligations, are material terms of this Agreement, and the parties intend to be bound thereby.
- Denomination in United States Dollars: All monetary amounts provided for in this Agreement shall refor to United States Dollars.

ARTICLE 32. INTELLECTUAL PROPERTY

- Whether or not any components of the Vessel may bear the patent number, trademarks, or trade names of the manufacturers, nothing in this Agreement or the Specifications and any addereda (Exhibit A), or the Plans and any addenda (Exhibit B), which are incorporated berein and made part of this Agreement, shall be construed as transferring any patent, trademarks, or trade names of the manufacturers and nothing in this Agreement or the Specifications and any addenda (Exhibit A), or the Plans and any addenda (Exhibit B), shall be constitted as transferring any patent, trademark, trade name, or copyrights from the true and lawful owners thereof.
- The Builder shall defend, indemnify and hold the Owner harmless against any liabilities of the Owner arising out of any infringement of patent or design in respect of the use of designs, plans, drawings or Specifications supplied by the Builder in connection with the Construction of the Vessel under this Agreement (but only if any such infringing designs, plans, drawings or Specifications supplied by the Builder was not produced or done pursuant to the specific directions, instructions or requests of the Owner, the Navat Architect, the Interior Designer, the Marine Engineer, the Owner's Representative or any other persons engaged by the Owner), and the Owner shall promptly give to the Builder notice of any such claims brought against the Owner and provide such assistance to the Builder in defending any such claims as is reasonably required, including but not limited to allowing the Builder to defend any such claims in the Owner's name but at the cost and expense of the Builder.
- The Builder shall respect the intellectual property rights of any third parties with whom it is in privity, and in addition, the intellectual property rights of the Naval Architect, the Interior Designer, and the Marine Engineer.
- The Builder acknowledges that, except as otherwise provided in this Agreement, (i) the Plane, the Specifications, engineering calculations and any other

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intellectual and proprietary property used or furnished to the Builder for use in connection with the Construction, testing and delivery of the Vessel shall be and romain the exclusive property of the Owner, or its licensors, as the case may be: (ii) except with the copress written consent of the Owner, the Builder does not have the right to use the Plans, Specifications, confineering calculations and any other intellectual and proprietary property used or furnished to the Builder for use in connection with the Construction, testing and delivery of the Vessel for the construction of say other vessel; (hi) except with the express written consent of the Owner, the Builder does not have the right to sell, assign, license or sub-license any rights, interests and uses in and to the Plans, Specifications, engineering calculations and any other intellectual and proprietary property used or furnished to the Builder for use in connection with the Construction, sesting and delivery of the Vessel to any third party; and (iv) except with the express written consent of the Owner, the Builder shall not have the right to reproduce, distribute or disclose, in whole or in part, the Plans, Specifications, engineering calculations and any other intellectual and proprietary property used or furnished to the Builder for use in connection with the construction, testing and delivery of the Vessel.

- Notwithstanding the provisions of ARTICLE 32 d). Builder shall have the right to use the Plans, Specifications, engineering calculations and any other intellectual and proprietary property exclusively in connection with the Construction, testing and delivery of the Vessel.
- The Owner and Builder acknowledge that: (i) the engineering calculations, construction drawings, and any other intellectual and proprietary property furnished by the Builder for use in connection with the Construction, testing and delivery of the Vessel shall be and remain the property of the Builder, the Owner however being hereby granted an exclusive license in the same; (ii) except with the express written consent of the Builder, the Owner does not have the right to use such entoncering calculations, construction drawings, and any other intellectual and proprietary property furnished by the Builder for use in correction with the Construction, testing and delivery of the Vessel for the construction of any other vessel; (iii) except with the express written consent of the Builder, the Owner does not have the right to sell, assign, license or sub-license any rights, interests and uses in and to the envircenting calculations, construction drawings, and may other intellectual and proprietary property femished by the Builder for use in connection with the Construction, testing and delivery of the Vessel to any third party other than a charterer or buyer or other transferce of the Vessel; subject to the restrictions set forth herein, and (iv) except with the express written consent of the Builder, the Owner shall not have the right to reproduce, distribute or disclose, in whole or in part, to third parties, the engineering calculations, construction drawings, and any other intellectual and proprietary property furnished by the Builder for use in connection with the construction, testing and delivery of the Vessel, except to the extent needed by the Owner or by a charterer or buyer or other transfered of the Vessel in connection with the use, maintenance, recair. charter or sale of the Vessel, subject to the restrictions set forth herein.

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Notwithstanding the provisions of ARTICLE 32 f), Owner shall have the right to use the engineering calculations, construction drawings, and any other intellectual and proprietary property fornished by the Builder in connection with the Construction. testing and delivery of the Vessel as needed by the Owner in connection with its use, maintenance, repair, charter or sale of the Vessel, and the Owner shall have the right to transfer such rights in whole or in part to any chartener or buyer or other transferee of the Vessel for the same uses, subject to the restrictions set forth berein.

ARTICLE 33. ATTORNEYS FEES AND COSTS

In any arbitration or other legal proceedings initiated by any party to this Agreement arising out of or relating to any question, difference or dispute under, or any alleged breach of this Agreement, or in any logal proceeding to enforce or realize upon any arbitration award, the providing purty shall be entitled to recover from the other party all attorneys' fees and expenses reasonably incurred by the prevailing party in determining, protecting or enforcing its rights, including, without limitation, those incurred in connection with arbitration proceedings, or in connection with proceedings is any trial court, on any appeal, in any bankruptcy or other such proceeding, and in any post-award or post-judgment litigation to collect upon or otherwise enforce an substration award or a court judgment.

ARTICLE 34. REPRESENTATIONS AND WARRANTIES

- Builder makes the following representations and warranties to Owner on and as of the date bereof;
 - Builder is a limited liability company dely organized, validly existing and (i): in good standing under the laws of the State of Delaware and has the requisite corporate power and authority to enter into and perform its obligations under this Agreement; and
 - This Agreement has been duly executed and delivered by Builder and does constitute the legal, valid and binding obligations of Builder enforceable against Builder in accordance with its terms, subject to the effect of bankruptcy, insulvency, reorganization, receivership, monitorium and other similar laws affecting the rights and remedies of creditors generally and subject to the effect of general principles of equity, whether applied by a court of law or equity; and
 - There are no legal or governmental actions, suits or proceedings pending or, to the actual knowledge of Builder, threatened against Builder before any court, administrative agency or tribunal which, if determined adversely to Builder, could reasonably be expected to affect the ability of Builder to perform its obligations under this Agreement.
- Owner makes the following representations and warranties to Builder on and as of the date hereof:

Page 63 of 101

- Owner is a company duty organized, validly existing and in good standing under the laws of the Cayman Islands and has the requisite power and anthority to enter into and perform its obligations under this Agreement; and
- (ii) This Agreement has been duly executed and delivered by Owner and does constitute the legal, valid and binding obligations of Owner enforceable against Owner in accordance with its terms, subject to the effect of bankruptcy and other similar laws affecting the rights and remedies of creditors generally and subject to the effect of general principles of equity, whether applied by a court of law or equity; and
- There are no legal or governmental actions, suits or proceedings pending or, to the actual knowledge of Owner, threatened against Owner before any court, administrative agency or tribunal which, if determined adversely to Owner, could reasonably be expected to affect the ability of Owner to perform his obligations under this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed, personally or by their duly authorized representatives with due written authority. and their scals are hereto affixed as of the date(s) indicated below.

EXECUTED as an agreement.

For the Builder:	For the Owner:
DERECKTOR SHIPYARDS CONN., LLC	GEMINIALITO.
By: E. Paul Derecktor	By. Gottomyler lepol
Title: President of the Board of Managers	Title: //W/
Date: 7/14/05	Date: 430/05

2449375_y17

EXHIBIT B

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01 GENERAL CONDITIONS

GEMINI Project Contract Specifications

This specification is for the construction of a 145' extantation suiting yackt according to plant and specifications dated April 28, 2005. It is the intent of this design and specification to construct a super yacks to the highest standards of construction and outfitting.

The yacht is intended for private use and chartes (commercial use) and is intended for year round, worldwide crussing, all seas excluding ice, with trues-occasic capability. The yacht is to be Classed and delivered with the following certificates:

- Bureau Veritis Roles for the Classification of Yachts;
 - # HULL MACH
- MCA; ≤12 pastengers; ≤500 GT.
- Cargo Ship Safety Certificate
- 4. MARPOL Annex I, IV, V and others as required (SOPEP review by Class)
- Intersectional Land Line Certificate (ILLC 1966):
- International Tonnage Certificate (PCC 1969).
- Letter of Compliance for Minimum Sufe Manning.
- 8. Facuma Tomage Certificate

All certifications and togetations are to be current at the tipse of delivery to the Owice.

The Builder, will assist the Owner in establishing the ISM Safety Management certificate and Certificate of Registry.

01.01Contacts & Loyal Addresses

रिप्रकृतिका विकास Gemini Project

Naval Architects Van Peteghem & Lanciot Prévost Yazht Design

> 11 Blvd Bairdon 75004 Paris, France enuit : geniki@rplp.com

Marine Engineer: Taylor Marine Services, Inc.

> Harvard, MA 01451 USA finail: taylormarine@charteroæt

faterior Design: Michael Leach Designs

London, 5次

97.9Z... Principal Characteristics

Flag State:	Cayman Islands
Hull material:	Aluminum
Radi Over	Catamaran
Length over all:	44.2m
Lought water Binc:	40.8m
Molded Brendth:	16,6m
Molded Depth:	1.7m
Draft-	2.8m

Said ureas	848m² (up-wind) / 1112m² (reaching)
177°C 1969 totalage:	499T
Light Ship Displacement:	210T
Puel Canacity:	3036S Bleck

Water Capacity: Anchoring Systems: 8509 liters Chassed

Anchoolig Systems Salidivisinad

ten (19) watertight compartments

Decks

Three (5); cabin deck halfs, main deck, upper deck

Propulsion:

Two (2) Caterpitter; model: C-12; rated: "C" 454 hp @ 2100

rpmi

Generators:

Three (3) Northern Lights; stodel; MF44513; mied; 40 kW;

203/3/60

IL-02.01 Units

Units used to this specification:

t states = 3.281 feet 25.4 mm = 1 inch

1 tenne - 1000 kg = approx. 2200 l6s

1 liter ~ 0.365 US gallous

01,02.02 Dimensional Tolerances

Hell alignment and dimensions are to be required during the construction period. The following structural tolerances will be followed:

± 44.2 pgg (1.75%)Hoas Length: -0, ± 25 nga (-9", +1") BreadUs: $\{u'\}$ a) 625 ang Duptle: Forme spacing: £5 tem (±3/16°) (a:1/4") Dock beights: dib inni (43/16'')Longitudinals: ≢ें सद्रश् (23716")HislScheads: £5 mm. 43 men, 40 nem (before use of filler) Spelt deflection: (5.47)Hall vertical alignment. ± 35 ⊓\na (1")(tpl) parallel: 4 25 most

-6-45 angs

01.03 Plung and Specifications

Bow-Stem Diagnoals:

It is the intent or spirit of this specification and the plans to construct and farrish a pacht complete and autifited in every tespect and ready for her intended service. All articles of equipment to be furnished by the Owner shall be specifically mentioned betwin, and, if not specifically mentions, are accounted to be included. Oneissions from the plans or specifications, or both, of any items, which according to the generally accepted practice, are necessary for the proper aptration of the yacht, shall not release the Builder from supplying some.

(1.35")

In all cases where discrepancies exist between the specifications, schematics plans and the contract shall govern, followed, in order, by the specifications, plans and schematics.

The plans and specifications are intended to be consistent and in harmony, and any work called for in the plans and not in the specifications, or vice-versa, are to be executed as though mentioned in both.

All glius and specifications are to remain the property of the Owner or Architect.

ğı, az Bailder'x Responsibilities

The Builder will be responsible in all aspects in construct the vessel in accordance with those specifications and design as par forward by the Ateletecis and as represented by this specification and the Architect supplied drawings.

is shall be the responsibility of the Builder to corefully classic purchase orders, and also to check all traderials delivered, to ensure configurate with the details of the specifications and with all norma) wasking requisements, including installations within the available space.

The Builder shall accept his obligation to review all specifications, plans, believestics, arrangements and Details, collectively the Details, submitted by the Architect and in acceptresponsibility for the proper construction of the yacht, as though same, were of the Builder's. own design. Unless the ofournentiated details have been rejected in writing, the Duilder is required to proceed with the work as set forth in the fietails.

411.444.41 <u>Significations intent</u>

Those specifications are for tendering and construction purposes. Principal herrs, such as systems, entriprotent that machinery, to be been specified for life cycle, weight and performance criteria. Specified storms are intended to be restrictive rather than descriptive, and use of the type and grade of acticles that wift he satisfactory. If the Ruilder proposes alternative equipment, the weight, tife cycly, parformance criteria and east differences will be specified in tias teaules.

Where the parase "or eggat" is used in these specifications, the Builder may propose alternative esprigsment based upon life cycle, weight and performance criteria. If the Builder proposed allerantise equipment, it is required that the weight, life eyele, performance criteria and cost differences be provided in the tender.

02.04.02 Weight Control

Of coince impartance for a could half solding vessel is unhinging, weight as this other is is a critical factor affecting performance, Under such discustivenesses, the Builder will propose a weight control program in monitor the weight of the constitution.

As newer, strunger and lighter materials are developed after the specifications beve been projects, and us the build proceeds, the Builder may propose alternative materials to the specified materials, and the impact on weight and cost for the Azelvitect and owner to review.

The Architect way peopose alternative materials to the specified materials. In this instance, the the ilder will provide its interest on weight and cost. In all circumstances, the Athlibect and nwater will have final choice of majorials, Please acc 01.04.04 Alterations & finals.

01.04.03Weight Calculations

Sefere the final Lines Plan is completed, the Architect will hand over the total weight. cultionains to the Hailder for approval. The Builder will sheek the weight salculation reads by the Architect. The total displacement will be calculated in the following condition "fully: kkaded, Witaaks"...

The Builder shall be responsible for meeting the weight coloubulious and about institute a weight tunitating procedure and track weights.

The Builder will propose a weight monitoring procedure plan for Evuluation. Such a procedure should include weighting of every thing that goes on and off the vessel, and periodic weighting of the entire processor for both weight and LCG. The Builder reast submit 'reast time' 'weights' to the Architect for seview on a mouthly basis.

28 April 2005 Page 4 of 123 Complete vessel including:

- हैईकिए यार्थ केलाहाड
- Stacking/running degring
- Saik: assinsail, foregail, jib, staysail, sail covers
- Spare parts
- Tools
- UphoMisy
- Half tasks
- Safety depaipment
- Owner formished items listed to part 16.02

91-94-94 Construction Process

The Architect will be consulted regarding any and all recommended substitutions and he will be asked to confure that there will be no sacrifice in quality, additional weight, or performance. However, in all cases, it is undetected that the fical decision and authority to the Builder will term in with the Owner's Representative. Changes from the items listed by rade name shall be made only with the approval in writing from the Owner's Representative. This condition is to have effect whether or not such terms as "or equal" are used.

Whose no specific angelier has been named, the Builder is to select more than one supplier for the equipment, and being satisfied that the equipment means the requirements of the details, is to obtain Owner's Representatives approved before purchasing and installing equipment.

The Builder is to review all plans, drawings, subcuntractor parts and specifications to assistly the Builder that the issuested objectives and requirements will be achieved.

Specific items where required by the Classification Society, such as usen half materials and machinery are to have test octificates issued by relevant manufacturer and inspecting authorities, where applicable. All magical and one capitical copy of all certificates are to be provided to the Owner's Representative.

All post contract costs of testing, certification, Classification expenses, including Plan Approval. Surveys, Trim and Stability Calculations, Freeboard and Tonnage Measurements. Dook and Sea Trials are to be included in the Price unless alternative contraction managements have been ratiols.

81.04.05 Alterations & Extens

Should the Owner deem it necessary or savisable during the course of construction to anke changes in the loyaut or details, so long as the general style and type of the Yacht and it's arrangements are maintained, such changes are to be made by the Builder without invulidating the contract and without adding expuses, provided these attentions are determined before the particular part of the work to which they refer is commenced.

\$1.05 Stateslats and Worksuppyhip

The fluitder shall make all efforts to minimize weight of pasterials and consequents in the project.

The Builder shall guarantee skilled workmanship, in keeping with the best yocht construction treaction, and in conformity with the plans and specifications as approved in writing by the Course's Representative. During constantions, any most in americals found defective as

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unsuitable by the Owner's Representative shall be removed and replaced without extra charge, regardless of the stage of construction.

All materials and committateed unicles fundated by the Brükler shall be suitable for marine installation and shall be of the best quality for their respective purpose.

It shall be the responsibility of the Builder to carefully clasek purchase orders, and also to closely all motorials distincted, to ensure conformity with the details of the specifications and with all notates working requirements, including installations within the available space.

The selection of fastenings shall be Affen bead as square head fastenism. Fastenism will be high-grade attitutes steel, or other material with galvanic compatibility to be considered.

01.06 Owner Furthfred Henry

therentory from historical part 16.07 will be evaluat supplied from:

01.07 Much-ups

The Builder will cost separately, provide a space and construct muck-ups of the following areas:

- Aughov uranitempents (1/8 scule).
- Salon aud flyhrädge deck steering stations
- Sappe and off deck:
- TV Jadhge
- Edward's suite
- One (3) guest cabist
- Galler
- Dive compartment (post lezarolle)
- Tember compartment

81.08 ... Offices, Agress & Inspection

The Owner and his outborized representatives shall keve across to the vessel and everything permitting to the vessel at all repropelle haves. The Hailder will do its atmost in facilitate the work of the largertons. The Railder shall provide all normal assistance and materials necessary for the purpose of inspection.

The Builder will provide office facilities and space for the Owner's Representatives. This shall include:

- Access for a minimum of 1 telephone lines
- High speed internet access (2ble (oxdependent of yord).
- Offices for: Project manages/Owner's tellsesentative
- Meeting morn access

Additional requirements for video suggest for monitoring of construction will be made available.

01,09 Protection during construction

The Builder will use its best efforts (to)periteet all work and owner supplied items at all times and be responsible for and make good any and all decouge from whatever cause, to my part of

28 April 2005

Van Pereghent & Lauriot Prévont Naval Architects

the vessel or its equipment or furnishings, whether supplied by itself or by the Owner. All items are to be corked for the Project upon arrival, weighted and put in secure storage.

The vessel shall be built at the Builder's yard under a permatent toof with suitable clauste control, and will be delivered as per terms of the Contract.

The Builder shall maintain adequate insurance to gover both first party and third party claims, maying the Owner and Owner's Representatives as further such additional insured's and loss passes.

91.10 Acceptibility for workmanship and eleganting

Convenient access an europerturants for pleasing out and majorance shall be provided to all passs of the versel. Placeing throughout shall be filted with entained access batches.

Convenient accress to the engines, altering goes and all other equipment shall be provided. Care that be triced in beating pipes and other pares to avoid blocking of access. If hecessary, removable sections shall be attifized.

QLIS Lafting

The Architect will supply a 340 model to the builder. The builder will be responsible for the before and nesting.

<u>#1.17 Plans</u>

61.12,01 Contract Plans

The following plans are delivered as the contract plans:

- Euchoard drawings
- និម្សិយមូ ខ្ពស់ត -- ម៉ាប់ពីរ៉ាច់
- General armaigement ~ Cabin dock
- Opietal arrangement Main deck
- General agrangement Plybridge
- General arrangement -- Langitudinal sections.
- Сепекай изганорушнемі Темпручума времінтек.
- Ekouk přaga
- Elyhridge Birvini arrangement
- - Տանիներ
- Longitudinal and transverse forward heater
- Standbons & railings.
- Tender compariment + Isouching principle
- Platforto arrangemente
- शिव्योग्भवाचे सक्षांडवता वस्त्रामुख्यालयाः
- Aft passerolle generative operations
- Side passycolle.
- Deck leatehes and lockers
- Auclynting arrangements
- Mooring ឧភេខាន្ត១៧៥០៛
- Тъпазіруя аттаюретный.
- Systèmes layeres
- Registracy (1988) •
- Preliminuty engine soom mangement
- Tarks layout and generary

- Color results bigs
- Fire, unise, vibrotion and insulation package by SilentLine BV.

01.12.02 General Plans & Ducaments

The Architect will supply drawings and studies including, but not limited to:

- Roll bocs plan
- 3D usodel
- Hydrostatics
- Stability report approved by class acciety.
- Weight studies.
- Resident governmenty.
- Mast pluns
- Rigging plan & rig loads
- Chainplates gownerry and details.
- Standalous / railing details
- Cove stope & painting details
- Bridge & lectin stations layout

As a rule, the Architect will provide concesses, geometry, functionality and esthetics of items but will not provide construction drawings or detailed deavelage. These will be the responsitions of the Builder.

A detailed list of drawings will be produced between the Architect and the Builder specifying which party is responsible for their production prior to contract signature.

01.12.03 Interior Plans

Prior to contract signing, the following plans will be agreed between the Owner and the interior architect design and decoration team:

- General Astrongement
- Overlægd and window.
- (Twncz's spile)
- VIP cohist
- Opest cabbis and hullanous.
- Crew cabins and hathroons.
- Galley
- Crew mess
- Caridoss
- Main dock salon and dining area
- Lower Silder
- Wheelhouse
- Koterior fünnstinze Getails
- Special fixed feature
- Oethical averliese plans
- Lighting ១៛390gements
- Coltin perspective.
- Longitudinal syctions for cach room or area
- Transverse sections for each roun or area.
- Blevation for each recommentes.

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GEMINI Project Contract Specifications

As a rule, the interior architect, design and decoration team will provide consepts and geometry of items but will not provide construction drawings at detail drawings. These will be the responsibility of the Builder.

01.12.04 System Schemmics

The following subcurative me included:

- Post system.
- Lisho oil system
- Fire & Bilge system.
- Fresh water system
- Sea water system.
- Waste water system.
- Rydrosilic sysicer.
- HVAC system.
- AC electrical system one line diagram.

M.13 Plan Approvals

The Builder will submit to the Classification Society for approval all necessary drawings for the proper construction and Classification of the vessel. Copies of approved drawings are to be provided to the Copies's Representative and Architect.

Any plans developed by the Builder should be provided to the Owner's Stepresentative and Architect in duplicate, of which one copy may be electronic.

Ulakian Idula and Lena

Ouring trials, the yacht shall be at all times, in the care, costedy and control of the Builder. Attendance of the Owner's Representatives, Architect, Class Society and regulatory authorities at the time of the trials, or the carrying out of requests to make certain runs to monetowers, whether informally arranged or accurding to an established trial agenda, shall not serve to place the yacht to the case or control of the Owner's Representative, Architect, Class Society or regulatory authorities at any time and the Builder agrees to bold the Owner, Owner's Representatives, Atchitects, Class Society aud/or regulatory authorities hamilies in the every of loss or damage occurring during stills.

'Frials will be conducted in accordance with the regulatory authorities' requirements and additionally:

- Prior to testing and inspections, all tanks and piping systems will be thoroughly electrical and
 washed, and all stag, grit and delatis will be removed.
- On completion of construction and prior to painting, all find oil tanks, ballies tanks, water tasks, oil tanks and sewage/sanitary tanks will be rested and inspected according to classification society regratements.
- Them ressel completion, a thorough program of dock tests and sea trials are to be carried out to the satisfaction of the Owner's Representative. Architect and regulatory authorities. All proposed programs are to be submitted to the Architects by the Builder for approval before the vessel is completed. All operations covered by these trials are to demonstrate satisfactory performance and workmanship of all items, as to their suitability for the purpose intended, and to show that all requirements of the building specification have been seen.
- All encessary sub-contractors or equipment personnel are to be present during their equipment correctes forbig; or system trials.

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- The trials to be conducted and staffed by the Builder, in the presence of the Owner's
 Representatives, Architects, Class Society and regulatory authorities and all data obtained
 to be recorded and tabulated by the Builder.
- Three copies of all data obtained are to be provided to the Owner's Representative and the Architect.
- The Owner's Representative shalf have the right to select all fact and labricating oils and
 gresses for contraits/staing and trials. All fact and labricating oil constaned during
 commissioning and trials shall be for the account of the Builder.
- All necessary materials and stores for the docation of the trials are to be provided by the Builder.
- After all trials a thorough examination of the vessel's structure is to be carried out. All
 system filters are to be changed and checked for foreign teather to ensure systems are
 thoroughly clean.
- Hose testing of all through dock fittings to be conducted after sailing trials.
- All defects found during these trials to be made good by the Builder and the vessel to be re-conscissioned and thoroughly tented and all corrections approved to the satisfaction of Owner's Representatives, Architects, Class Society and regulatory unflorities.

01. 14.01 Dock Trials

Dock trisks are helperonetested atmagnide the Budder's facility and are to include at a minimum the fallowing trials:

- Main engines, propeller systems and related equipment
- Generators, electrical systems and related equipment
- All deak, mooring and unclusting equipment
- Steering, emergency steering and thruster systems.
- Calibrative of all tanks
- Calibration of all sensors and monitoring systems
- All sailing systems
- Printing purpoing and endurance tests for all pumps and piping systems
- Mangal and automatic controls and alarm systems.

Sea trials may not commense until all dock trials have been completed and all defects or deficiencies are cared to the satisfaction of Owner's Representatives, Architects, Class Society and regulatory anthorisies.

01. 1d.02 Power and Managescing Trials

The Yaclat is to be laden to the equivalent of full lead dualt and taken to sea for a series of new (one in each direction) over a necessaried distance to determine the squed of maximum continuous power in deep water and under agreed again, sea conditions.

Triaty are to include a series of two over a measured distance to desermine H.P./R.P.M.Propelite Pitch/Speed Curves. These trials are to cover, maximum; (199%) power, 50% of power, 60% of power and 40% of power.

High and low speed-maneuvering trials are to be conducted, to include full look turning circle at continuous process and at such lower speeds as requested by the Owner's Representative, Architect and regulatory authorities:

- maneuvering astern.
- energency stop at 88% power
- UNIS operation and electrical blackout trials
- operation of all machinery while at sea

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analyse bandling and anchoring trial

Sailing trials may not commence until all power and appearering trials have been completed and all defects or defectances are cuted to the satisfaction of Owner's Representatives, Architects, Class Society and regulatory authorities.

01.14.03 Salling Triots

Upon satisfactory completion of dock and power stials the Yacist will tastlerge satisfag stalls. Trials are to include a minimum of three B boar day trips at sea, with key Bridder and grincipal sub-contractors' personnel aboard. During these trials the vessel's performance (boar speed, speed made good, consec to apparent wind, apparent wind speed) is to be excurded. It is necessary for the satisfactory completion of sathing trials that they are conducted in suitable weather conditions; for full said this should include true wind speeds of up to at least 16 knots. Trials under reafed conditions should be carried out in wind speeds of not less than 20 knots.

For the start of the safting trials the vessel is to be loaded to at least enedion draft, stases and water to obtain craiting conditions.

The trials will include a testing of all navigation equipment as well as load sensors on the rig.

93.15 Stability Calculations

The fraigher mass show by design calculations that the vessel will nevel the intext and damage stability requirements for a calculation auxiliary saffing vessel as required by all solution authorities.

The Builder is responsible for monitoring stability during construction and tracking all movements of the center of gravity. These will be submitted to the Architect on a monthly basis for review.

The appropriate stability tests will be conducted by the Builder when the yacht is fully tigged and ready for sea trials.

The Builder will deliver the yeasel with an approved stability booklet.

81.16 Mass and Riveing

The Owner's Aschitect with Secide the rig geometry and will provide same to the Shilder with the dimensions for the most and rigging. The Builder will deliver final dimensions to the most builder.

01.17 Delivery of the Yessel

The Builder will deliver the vessel to the owner in accordance with the Protocol of Delivery and Acceptance, as set forth in the Contract, which means that the risk and expenses of the Yacht are transferred to the Owner from that date.

01.18 Ship Documentation Books

The Builder will submit the following books to the Owner and will also include all available information on CD. Storage for the records is to be provided in the wheelthouse, captain's office or control room as applicable and is to include:

A. Technical Documentation

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All available printed or electronic deconstruction of equipment, such as: operation manuals, workshop manuals, service stations, parts lists, drawings, schematics, point systems, lubrication systems, etc. is to be provided. All documents are to be organized, completed and provided with an index.

B. System Descriptions

A description of all important systems and equipment on hourd is to be provided. Information such as: where it is located, how it is competed, what it is supposed to do, how to start, to stap and to me, together with essential information such as: part numbers, type quanters, reference to manufacturers is to be included. The system descriptions will be provided in separate broke and on CD, with the documentation mentioned under C.

C. Maintenance Schedules

A preventive traintenance selectule for all equipment and coatings will be developed by the yard. The following intervals shall be applied. For example: daily, weekly, mostily, 3-monthly, 6-monthly, yearly, docking, 2-yearly and self, as applicable all equipment and evaluate. The maintenance is mentioned together with the step by step descriptions described more fully in actions.

D. Coding Systems

A pipe conting system will be developed. The coding consists of self-adhesive arrows sur a chappe-vigyl base in the international color code.

Electrical codes will be as specified in part 10A.

01.19 Abbreziations

The following abhaeviations are to be used in the Specifications:

Ath	opidityn	Word on Phose
	МСД	British Maritime and Consignard Agency
•	BV	Burezu Veritas
٠	SOLAS	International Muritims Organization for the Safiny of Life At Sea, 1974 and its Protocol 1988 (as amended)
•	ABYC:	American Brost & Vacint Connecti
•	Stist	Stealwood
•	TB()	To be determined
*	HVAC	Heasing, Ventilation & Air Conditioning

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62 CONSTRUCTION OF HULL AND SIMPERSTRUCTURE

42.61 General

The find) will be of worlded aluminum construction and build under the supervision of the Bureau Veritas, the Architect and the Owner's Representatives.

02.02 Materials

The vessel is to be constructed of \$3383H116 aluminum alloy plate with extraded aluminum services to be 6082 F6. Note that there is pending development of higher strength marine grade alloys that may be considered, \$383 extrasions may be considered to save weight, if sufficient quantifies can justify extrasion

42.43 Hall Construction

The seasilings and surfaces as listed on the structural drawings.

02.03.01 Sulkhends

All aluminum isolidosads are experiented of 5383 aluminous and 6082 T6 extrasions.

62,63.42 Segetural & Non-Structural Glass

Shikoniral and mon-structural glass as per the architects plans. . .

2.44 <u>Dours</u>

2.04.01 Watericht doors

Watersight doors will costuply with the standards required for passenger ressels. The standards are defined in SOLAS Chapter 11-1. The watersight doors will also display states on the MIMIC goals.

Watertight thous are focuted as follows:

Name	Nander	Opening rawie	Class	bacation X	Size (mm)	Pari/S th d
Com & Startmand engine round Iwi ibba	2	Flinged	A-60	25200	1909 x 750	Bolls
Pari & Starboard engine room: side exergie duor	2	Dogniff	A-69	21650	thi]	Beth
Portoned VIP cabins exterior doors	2.	Histograf Folded to the wall	À-0	30595	2000 x 800	i itoli

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3.04.02 Weather tight doors:

Name	Number	Opening mode	Llavs	Lucution X	Size (mm)	Porf/Stha
Mains saluo duucs		Stiding	(tet)	17950	. 1200 x . 2200	िशह
Main salon duors		Sliding	cint	17950	860 x 2200	Sibil
Bar door		Sliding	TEND	L795#	300 x 2201	Sthick
Companion way gaesta cabies Staintase	1	Slikking	ned			Part
Companius way stew cahow Staircase	ı	Stirling	TRO			Sited

The main adam doors will he automasic opening, activated by sensors from both sides.

02.03 Hull floors

The hall doors and tender harders are to comply with SOLAS Chapter \$1-4, part 25-49.

The field dears and tender batches will be fatted with positive ascellantical lateless with fail sale arrangements. Hall doors will also display states on the MIMIC panel.

Hell door and batch latching systems may be exposed in order to save weight.

82,85.81 Sthy Lazargie fluit Dans

See drawing: Gent_T09_stbd_transma_aircingement and details in Birl Package place B

The sthd list done will open up, hinged on the upper edge. It will be used for access to beneching the accordary tender. The tender will be baunched with two C-Quip, of explat, beaus cranes.

Opening width or length: 4750 mm.
 Opening beight: 1600 mm.
 Naight above W1: 500 mm.

92.05.02 Part Transom Duot

See deswing: Gein_ 104_aft_passerolle and details in Rid Pockage place H

The part fuzzrene tonisom door will open up, linged on the forward edge. This door will allow for full head soom in the lazarette serving as the diving compartment.

Opening width: upganxinastely 3550 above

Opening length: approximately \$350 nat

02.05.03 Tender Natches

See drawing: Gem_391_tender_communications and details in Bid Package plane B

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Tender hateless will be hinged on the outboard sides and lower for hunwhing and recovery of the main tender. These should a mechanical locking device, with manual override, to lock the doors into closed position. There should also be a locking system to hold the tender in position. Crew access will be from the main dock enclose from two lateral hatches (see Dock Hatches and lockers) and lead to two platforms fitted inside the tender compartment.

Opening length both door.

3900 nan

Opening width, both esser:

3159 pare (2 x, 1575 max.)

Height above Wl.:

2000 num

Difect equipments:

Hydrualie hoisting system for tender

02.06 Challenbates

Closin plate size is to be determined. All chain plates are to be specified by the Architect.

<u> 62.67.61 Fact Tonks</u>

See drawing: Gent PRI & PRE

The fact system will comply with Buress Verias Bules, Part C. Machinery.

Pank volumes will be enexamized for the space permitting in accordance with the construction plans.

Six (6) integral fact casks with a total estimated expectity of approximately 31,450 facts, located between 17930 and 26300 in the cross deck with inspection latebas, fell & vent pipes and other necessary littings. There will be a passageway between the fact tanks for connecting the falling manifold. These tasks will be provided with top manhole access for maintenance.

62.07.93 Presh Woter Tunks

Water tankage will be maximized. There will be two (2) jueged water tanks with a total estimated capacity of approximately 8,600 liters, localed in the cross deck, fixed with manholes, filling and cent gipes and consections.

02.07.63 Waste Water Tunks

Two (2) integral holding tends of approximately 4650 liners each are to be ineated in the keels with mendades for inspection hotches and tank connections. These tanks with he provided with mp membale access and side analysise access for day dock resistenance.

Four (4) non-integral black water collection tanks of approximately 350 liters each are to be for all the higgs with manholes for inspection hatches and tank estimations. These tanks will be provided with iop manhale access for maintenance.

The tanks will be specially countracted and enaled for waste water.

02.02.04 Stop Tanks

Two (2) integratestop tanks of approximately 550 liters each are to be located in the hilges with appropriate for inspection hatches and tank connections.

02.07.65 Spn Woter Tanks

One (1) spo water tank of approximately 2000 liters is to be built in the port hilge located between 16000 and 18000. It should be fitted with manholes for inspection hatches and required connections.

<u>02.07.06 Lube Oil Tonks</u>

Two (2) integral hydraulic tanks of an approximate capacity of 500 liters each, are to be fitted us per the drawings.

02.07.07 Diety Oil Tanks

Two (2) integral dirty oit racks of an approximate capacity ef 960 biers each are to be built in the bitges between frames 24 and 25. They should be fitted with machales for inspection liketius and lank connections.

97-97-98 Nydraulle Off Tanks

One (1) integral hydrautic storage tank will be fitted. Size and location to be determined.

Hydraulic reservoirs for the gent and athd thruster systems and main hydraulic pack are to be determined.

02.08 Anchor Kurdweev

Two (2) and/or chain estaclment points are to be installed in the lower chain locker wills release pain accessible via an opening fastch of publ mechanism.

The windlesses and claim stoppers will be installed in deck lookers with facking firely issuffice.

03.09 Evantations for Deck Equipment

The structural minforcement in way of all deck handware will be determined by the Builder.

02.10 Enupdations/Reinforcements

Engines and variable pitch propeller foundations are calculated in accordance with Class Rules with consultation from the poise and vibration consultant.

02.11 Hall Openings

The following is a provisional list of muchinery space hall buings. Please see drawing: Gem. CBJ freehourd_drawing

Port Bull

- I" Overloard Legerate
- I" Overbread Aft Guest Accommodation Bilge
- 1" Overhoard Engine room fwd
- 2" Overboard Engine more Fwd (Emergency Bilge Dischurge)
- I" Overhoard Fwd Guest Acctemenedation Bilge
- t" Overboord Fore Peak
- I" Overheard AR Guest Accommodation Bilge
- I" Overboard Engine Room Field (Hydraulic oil oreling)
- 1° Overbrard Engine Room Midship (Water Maker Back-Hush)

- if Sea Chest Suction Engine Room Ford (Informat & Outboard Hull)
- 3" Overhoard Engine Room Aft Outhourd Shell, Below Woterline (Main Engine Wet Exhaust)
- 6" Overfream Hagiste Room Aft Gulboard Shell, Above Waterline (Main Engire Dry-Exhaust)
- 2" Overboard Engine Rooms Aft Cheboord Shell, Below Waterline (Inboard Generator Wet Extense)
- 3 1/2" Overboard Engine Rugan Aft Outboard Shell, Below Waterline (Inhoard Generalor Dry Endants)
- 2" Overhaard Engine Room Aft Outbrand Shell, Below Waterling (Outboard Generator Wet Extense)
- 3 102" Overhoord Engine Room Aft Outboard Shell, Below Waterfine (Outboard Generator Dry Extraosi)

Statt Matt.

- I" Overhoast Lazerette.
- 1° Overboard Aft Chew Accommodation Bilgs
- I" Overboard Engine room Fool
- Z" Overhoard Ungine soom Food (Emergency Bilge Discharge)
- 1" Overboard linging room Mikklip (Oily Water Separatur)
- I" Overtoard Fast Crew Accommodation Bilgo
- I" Overlsoard Fore Peak.
- 2" Overhound Ait Crew Accommodation frilgs
- 2 1/2" Overhourd Engine Room Aft (A/C Chiller Cooling).
- I" Overhoard Engine Room Midship (Water Maker Back-flush)
- 4" Sea Chest Section Engine Posons Food (biogent & Outboard Holt).
- 3" Overstoard Engine Room Aft Outboard Shell, Below Waterline (Main Engine Westerhoust)
- 6" Overboard Engine Room Aft Outboard Shell, Above Waterline (Main Engine Day Extensi)
- 2" Overhoord Engine Room A& Outhoard Shell, Below Waterline (Outboard Generator Wet Palanse)
- 3 1/2" Overhoust Engine Room Aft Outboard Shell, Below Waterline (Outboard Generator Dry Exhaust)

Wet deck:

 Cuckpit, skeek luckers, tender compartment, passageway and forward lucker diales as required by the Rules.

62.13 Stern Tabe

Two (2) Americal "Basy Stern Tube*" shall systems with scale will be constructed into keel as per the drawings.

B2.14 Waterlight Bulkland Penetentions

All watertight and gas tight penetrations of pipes, caldex and witing are to be as light as peasible.

Type: Rise or equal
 Approval: BV approved

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GRAINI Project Contract Specifications

03 STRERING INSTALLATION

03.01 Ggregal

The yacle is to be provided with an electro-laydraulic steering system with helm wheels and lever specific lands and lever constal steering business and lever constal steering from the same control station in accordance with Class requirements.

The steering system is engineered and specified by Jastian Engineering, Ltd. The following main components are listed and details specified in quantion IQ041237A are also had in (Appendix A)

A walk asound maneuvering plug-in device to be provided from the upper deck.

Manufagherer: Instrain Engineering Lot

Jastran specification: B3-309-9-1-35
 Type: Hectro-laydrautic

Rudder ungle: 35/35

Rudder torque: 4814 filb per ruddes
 Turning rate: 12.0 sec (35/35)

03.92 Steering Principle

The two flyshidge lichestations will be operated by digital control belon units with supply information to the digital strenging controller. The interior strenging system will consist of a field follow-up and non-follow-up lever integrated with the digital strength controller.

03.02.01 Exector Belms

Two (2) taistons built succeing whereis will be installed at the dybridge latin stations and constructed to the Owner's selection of style.

Manneherhert: TBD
 Moterial: TBD
 Dianeter: 1688 man
 Type: Spokeless

Helm semators: DH36 digital helix

03,03 Rudders

The auditer blade will be built of carbon liber. The suck will be built of Aquariset 22 MS and the internal foil displacegors will be built of ANSI 3561, or as determined by the Architect. The larger stock diameter is 2000 men and the upper mock dismeter is to be determined.

<u>#3.04 Wheel/Rudder Transmission</u>

The maximum radder deflection will be 70°, hard over to bank over with a maximum steering wheel transmission will be adjustable.

Titlers: Two (2) B-300

Cylinders: Two (2) B-300-32-37-2

Q105 Power System

Van Petephem & Lauriot Prévest Naval Architects

The system will be an electro-hydraulic system with dual steering motors and cross-over valves. Steering motors will be invated in each luxurette above the rudder and out of the bilgo area. In the rudders. Attention will be taken to eliminate noise and vibrations from the securing system.

Hydraulie Pacie: Two (2) 2 bp @ 20863/60

Weight: TBD

Controller: Two (2) motor starters

Weight: TBD

Alarm Panel; Four (4) AP-66

Hi,06 Rudder Shoft Reggings

Earth making is us he supported by a minimum of two (2) self-alignize bearings.

Upper hearing: TOD IP3
 Lower bearing: 200 non DP3

B3.87 Piping Systems

Piping systems will be high pressure stainless steel tobing. Taking will be best blosted in visible areas.

Tablag grades: AISI 316/ASTM A269-09 or equal

03.08 Emergence Speering

Intergency steering is provided by means of a hydronic steering pump system with connecting valves to each midder system. The steering proop is to be located in an afternain deck tooker.

03.09 Astrophot & Gyro System

Subject to integration with steading system and fatest equipment models, the adhypilat system will consist of:

Component Manufacturer & Mule)

Gytocompass Anachatz: Standard 22 G/GM

Autopilot Autobutz: Pifotstar D

For Further details, physics see the attached Larry Smith Electronics proposal.

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Van Petergiera & Lauriot Prévost Naval Architects

04 MAIN ENGINE INSTALLATION

04.01 General

The concept of the machinery space is to be executed with a high level of finish detail, including glossy paint and highly polished to bead blasted metal finishes. As such, the engines will be ordered as "Detailed" engines, complete with obvious and polished stainless shed finishes.

The Builder, with approval by the Architect will confirm the final engine specification, reduction generates and propeller size prior to construction of the verses.

The engines will be IMO MARPOL Annex VI compliant and arranged in accordance with Class and SOLAS regulations H-1/Post E and additional requirements for periodically unattended modifierly spaces.

The propulsion system will be a toin engine, variable pitch propeller system. The system will be designed with a 'maneuvering' made in which the engines will run at a constant span, with alterative reason restriction provided by the variable pitch propeller control. The builder will work with the Architect with the sixing of the thruster bydraulies to determine the power disposal so that sufficient power is provided.

The engines will be arranged with measurering corrects from all hebre positions. The engine instrumentation for the helm stations will be provided on an electronic monitoring system.

The Builder will conside with a suite and vibration deviations to assum the the entire proposition package (engine, seduction goes, proposite system, mounts and exhaust cyclem) are optimize for noise and without an entirel.

04.03 Main Engines.

His main engines me as follows:

Manafacturer: Carerpillar
 Model: C-12
 Specification: Indice 6 cylosfer, 11.95t, 4-Stroke
 Power: 456 bp @ 2160 rpm
 Rating: "C" Russel
 Weight: H77 kg

04.03 Kugina Equipment

The engines will be fined with specified Standard Equipment, plus:

- Engine manipoling system with interface to the vestel manistring system.
- Local engine instrument display system its each engine room.
- Thruttle govition sensor.
- Gear box PI() with remote activated clutch.
- Aársopit việt vuyar trup ngư vir filter
- Expression took
- Cupromickel hear exchanger:
- Senwater purps and index and saldet connections

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- Crankshaft pulice
- · Gear oft confer
- Lube dif cooker
- Double wall oil times
- Fuel uil copler.
- 24 VDC starter deviate.
- · SAE-1 flywbeel hosping or as required
- Prinsary fisel filter and water separator.
- Consections to oil change system
- Spane payts kit (2 cach).

84.84 Gearbox

The reduction goar dises not need to be a reversing gear as the pitch courted will provide maneuvering. The following goar is listed as a guide only:

Maouthouses:

Twin Disc

Model:

МО 5114-А, от ав арукоријата

Ration

TOD; prefininary data: 2.5:1

Weight

206 kg dry. 1730

SAR belt housing:

- Electronic eletch control
- Engine-matched torsions! compling
- Heat exchanges
- Codentyfores to oil change system.

04.05 Instruments

The each bette station will be equipped with asseiter panels that display full engine and general propeller pitch data and slares seases. This will be part of the vessel manifering system.

Each engine teention will also have a mechanical gauge package, including pitch position indicator. This display will be independent of the morator system.

84.06 Controls

Engine controls are no comply with Class and MCA requirements.

Engines are to be started & skepped firms local engine toom control and the Hybridge sebd beiss. position (FBD).

Primary ungine, genetics, and propoller pitch controls are to be available from all belon storaing stations by an electronic system.

• គឺជីវជាអូប្រែបូបែនឧបៈ

Bosch Restock Mini-Marek

As required by the Rules, back-up engine council systems are to be provided for local engine recurs countries.

The variable pitch propeller control system will be approved by the pitch system manufacturer. Control is an electro-hydraulic system driven by the Lewiser Communder HPU or hydraulic power park as specified in Part 07H Hydraulic Systems.

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The engines and controls will still be provided with a reverse reduction gear controls in event of the pitch system to fail.

04.07 Electic Compliage

The main propulsion installation to be equipped with elastic couplings:

Between mater and grarbox:

Manufacturer: TBD
 Type: TBD

Between grasbox and gitch system insulfation:

Manufacturer: Atmatisch
 Type: SE2840 DA

The specific model number will be decided after calculations.

04,08 Isolation Mayofs

The engine/genthan will be flexible monused on four (4) tubber mones.

Manufacturer: TBD
 Type: TBD
 Weights: TBU

84.89 Propellet Installation

This peopeller shall be a variable-pitch prop. The gearbox will be sezelf to have a muximum of 900 shaft RPM with a 900 mm diameter propeller. The propeller tip cleanance will be maintained at a minimum of 20% of the propeller diameter.

Line casters will be previded for each propeller.

System quantion information is attached.

Manufacturer: West-Mekan (supplied by Amartech)

Type: 80 EHWS
 Propeller: 4 black dia TED

• Designed operating pixels: TBD
• Shealt discrete: 30 mm

Shaft Jergeth: 4000 - 5000 non estimates!

Propeller material: Ri.Al.Br.
 Shaft treaterial: 1.4460

Pitch control.
 Lummar Commander WPU sontrolled

94.19 Shafe System

The shaft system is an 5¢ provides by the pitch system supplies. The propeller shaft provided, with a Prolisent, or equal and standby shaft seat.

Cathodic protection will be provided for the shaft system.

04.11 Exhaust Septem

Van Peteghem & Laurius Prévois Naval Architecta

The main engine exhaust to consist of a by-pass, water drop system as specified by Sounds/wh Corporation. The exhaust by-pass will exit above the waterline with the main exhaust coiling below the waterline. Both silencers will be fitted with water drops and drain lines if appropriate.

The exhaust system will be provided with all the necessary appendages, soft mounts, compensators and silencers for optimal results including taps to measure appreciative and backpressure.

Risen Metcalf Marine Exhaust

Marerial. TBD
 Weight: TBD
 Sileacer: Supplieses

Model: ED19 x 32G water drop
 Hoses: Trident Red Stripe

Hull valves: Tyon; AR1

95. GENERATOR

05.01 General

The Builder, with approval by the Architect with confirm the final generator specifications pensing final lead analysis before construction.

The engines will be IMO MARPOL Annex VI compliant and attenged in accordance with Class requirements.

The Builder will consult with a noise and vibration consultant to assum that the entire generator package (engine, sound shield, mounts and extraust system) and optimize for noise and vibration control.

Primary electrical service will be 208 votes, 3 phase, 60 Hz.

03.02 Generator Sets

The generator installation will utilize direc (3) identical generators with electronic control which are to be integrated with an automatic power management system at provided with the electrical panels.

Due to the space requirements the two generators mounted in the part orgino strong will be mounted in a single custom enclosure.

Morthern Lights

Type: 241064D

Raned: 46 kW (60 f)x, 1800 rpm)

Weighte B47 kg (dry)
 Sound Shield: Northern Lights

Sound shield weight: 783 kg.

Sound shield directasions: 20541, x 965W x 1159 \$6

03.03 Equipment on Generator Sets

The generators will be provided with the following equipment:

- Raw writer pump for cooling.
- Wet exhaust elliow
- 24 कोट्री इंड्रवीयाइट स्वावायन्त्रे अप्रवासक्त
- 24 VDC starting system.
- 24 VDC electric gauges.
- Electric shateffs for Oil press, Water term and over-speed.
- Oil level gauge and souder.
- Solonoid shatoff
- Paroliching kit
- Cupes-nickel heat exchanger
- Luise oil conter.
- Connections to oil change system;
- Finel filter and water separator
- Digital tückonleter

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Double wall first lines and draig

- Resilient supont system as specified by Silent Line B.V.
- Spare parts kit; 3 togd

05.04 Instruments and Controls

The generator sets are to be constolled at the electrical panels constructed by Atlas Marine. Systems with an automotive storting & paralleling function.

The engines and electrical system and their alumns are to be monitored by the vessel monitoring system and also by gauges mounted at the generaters.

95.05 Exhaust System

The generator exhibits systems are to consist of the components specified by Southdown Corporation. The exhibit systems will a water drop system with gas exit above the waterbox. The low points and silengers will be fitted with a drain. The overhead silencer will be fitted with water drop.

The exhausi system will be provided with all the accessory appendages, soft mounts, comparators and sileneers for optimal results including type to the assert temperature and backpressure.

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06 THRUSTER INSTALLATION

06.01 General

The vessel will be provided with retractable bow and stem thrusters, located as per the deswing T₁13. The directors will be controlled from both the poet and stod diploidge steering stations.

The part thruster(s) will be presented by the part main registe PTO hydraulic pump(s) and be independent of the stationard side thrusters. Likewise, the side thruster(s) will be independent of the part side thrusters, be powered by the sibd main engine PTO hydraulic pump(s). Pending that location of the hydraulic power pack for the sailing systems, can thruster system will above a common reservoir with that Lewiser Community FPU.

The Builder, with approach by the Architect and Project Manager will qualifie the final director specification prior to construction of the vessel.

\$6.02 Thrusters

The four (4) thrusters will be retractable:

•	9/Easisi/Gestures:	Lewnon
	Model forward:	5(%) SVTAH
٠	Populati	∌75 hp
	Weight:	330 kg zenit
٠	Model aft:	400 SVTAH
٠	Powert	2560 lap
٠	Pireisto	Alustinum
,	Weight	230 kg each

06.03 Controls

Main activation will be contralized from the flybridge sthe behaustation. Each emocuvering station will be provided with quatral stations. See also Steering for third control.

All tiggeners will have variable power, full-follow-up courrel and have independent operation between bow and story,

96.95 <u>Force Supple</u>

The port side thrusters will be powered by port maist estgine driven PTO pumps. Likewise, the subdiside thrusters will be powered by the sthrt maist estgine driven PTO pumps.

The Builder shall assure that the pressure and flow requirements are consistent with the sequired power.

٠	Manufachiner	TRO
•	Жи за јес	X
•	Specification:	Size 180
٠	Weight	X
٠	Port reservoir:	Х
	Stud reservoir:	Х.

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Filtering 86.08

In line liftering will be provided for each hydraulic reservoir as provided in the Hydraulic

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97A ANCHOR SYSTEM

The ground tackle is to meet Bureau Verites Rules No 384 Section 5.3 Part III. The preliminary Equipment Number is 243. The Builder is to confirm the Equipment Number and size of the equipment with Class.

The sucless and chain handling systems are to be installed in well decks under the forward deck and fit with flush hastless. The windfastes will sit over the objin lockers at the balls with 90° rollers to lead to the occious at the centerline. Conspression type chain stops will be provided. While at anchor, the ressel will lay on a bridle system attached to the forward beam ends.

The Buildes will snock-up the species handing astrongements to assure function of the system.

97.4.93 Anchor Winches

97A.01.01 Primary Winches

Two (2) hydraulic anchor winches with chain gypairs (only) will be installed in recessed foredeck wells with intches. The windhases will not have capsinas. Controls will be on the foredeck anity. The wholesses are to be reversing. The fluibler will assure that the windhases are capable of handling the anchor and chain.

Manufacenter: Music
 Type: VRC 1(600)
 Weight: 275 kg
 Power: Hydraulic
 Store: S3 lpm @ 175 bar

97.4.01.03 Chain Eggioseat

Chain compressor supplies are to be provided and are to be of like quality to the archor, windingers.

QFA.02 Chain Luckery

Two (2) reinforced chain lockers with chain pipes are to be fabricated inboard on each half as per fire drawing; T92_Aucharing Arrangement. The lockers are recessed via side batches within the half and provided with france in the lower corners.

The clasin lockers are to be lined with a replaceable and sacrificial protective limits.

There will be a quick release pin as link of the bitter end to release the role in event of energences. This gan will be accessed without appring the chain looker.

07A.03 Anches

97A.03.01 Primary Anchors

Manufacturer: Mansen or equal
 Number: Two (2)
 Type: Plengh; High Bolding Power
 Weight: 412 kg

Material: Bead blasted stainless spect

. . . .

Cerséticasion:

BV Class or type approval

07.4.03.02 Third Anchor

A third anchor will be carried in the dive locker with rode stowed on a reci.

Manufacturer:

Fortress.

Weight:

FX-125

07.4.04 Chains

For the printery anothers:

• Monofactures: Honnefales of equal
• Monofactures: Stainfess steel
• Chain size: 20.5 mm stab link

Grade: Q2

. .0

Langth each rode: \$50 to (492°) per andwar
 Contification: BV Class or type approval

For the Digid anchor:

ZS* ½° SS Proof cost obstant 300° f ½° ayton soite.

07A.05 Chain Wash Systems

The chain work system will operate from the fire users system. In addition, there will be a fired works system bose in the foredeck locker.

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97B BOIGE & FIRE PUMP SYSTEM

HM.01 Goneral

The hilge and fire prosp system is to comply with Class requirements.

The piping systems are to be designed for maximum life-cycle. Thus, we have selected 93/18 Copper Nickel as the metallic piping material.

The hilge pumping system will consist of eight (8) independent pumps, one in each compartness. The bow compartment (forward of collision bulkhead) will drain into the how locker compartment by a manually operated valve with reach took to the upper level of the how locker. Emergency pumps will consist of engine driven pumps or the fire pumps with engine room suction. Pumps are to be located in a way to minimize standing water.

The fire runin will consist of two independent proups, one located in each engine coast.

The vessel will also be provided with independent engine room PM-200 fixed fire lighting systems. Submaries of the bidge and the systems and operation procedures shall be posted at each operating area.

87B.01.02 Hall Waterfight Compartments

Each hall is divished into five (5) watertight compartments:

- Liozapyták
- Fearward cubites
- Maclánovy space
- Affications
- "apazetto.

978.92 Bilge Alarms

Each comparisons will be fitted with a High High-High hitge weret afarm connected to the mimic pated. The operating system with he provided for within the vessel resultor and Missic typica. The pumps will be resultably operated.

•	Level Aların Manufilourec	GEMS
٠	Tyge:	LS-240-3
4	Nucober:	60

<u>078.04.01 Bilge Pamits</u>

•	(ASSIMATE CARRETT	Online
٠	Number:	\$ (cight)
•	Турс	Series II EF 75
٠	Ruthay	63 ggm @ 7,9 m head
٠	Power:	3/4 fgs; 205/60
	Weight:	

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GEMBNI Project Consult Specifications

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070.03.02 Fire Pumps

The fire pumps will be manium, vertical centrifugal presp as follows:

Manufacturer
 Number
 Type:
 Gramifas
 CRT 16-30

Ruting: 14.75 m3/hr @ 54.85 M (65gpm@180ff)

Power: 7,548P motor, 209/3ph/60hz.

Weighe 63.5 kg

07B.03.03 Emergency Bilge Pump

A penable pump will be provided, in accordance with the Rules.

Type: Grandon
 Model: Series II EF 75

97B.04 Pépleg

All piping is to be metalist within the machinery space. Bitge piping outside of the engine matter, where persented by the Rules, will be planted as consposite. All fare main piping will be metalic with remote operated including valve at each engine count buildhead as required.

As usual in 1974, the analyst week system will be provided by a phyling estimation to the line main system.

An insemational share connection will not be provided.

07B.04.01 All Engine Boom & Five Main Piping

Manufacturer: Yard choice
 Alley: 90/10 Ct/Ni

Standards: Class 200, ASTM 8466 Working pressure: 13.7 San (200 psi)

Note the larger diameter from the sibil five group to the nuclear wash section. This diameter is larger as this pipe section will be highly used and the purpose is to transmise water velocity (improgramme correspond).

07B.04.02 Hilgs Piping Outside Engine Room

Meanfersurer: Yard obnice

Type: Aluminum us ASTM B466 ABS Plastic as

appropriate

978,05 Hoses and Nazzles

Hoses, hose starage and nexales will as specified in 97H.06

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07B.66 (life Water Separator

Assembly water separator will be provided for each engine route as required by the Rules. The toparator will discharge to the slop tank.

Manufacturer: Coffin Wroth Water Systems

Type: Heli-Sep 9000-OCO
 Power: A5 kW; \$20/1/60

Weight: 144 kg

Dimensions: 785 (, x 560 D x 1220 H

#7B.07 Controls & Maniture

Controls and monitors will be provided as required by the Roles.

Hilge purposes will be provided remote operation from the salan below station.

Fixe purious will be activated from any course station. Each fire purity and will be provided with discharge pressure gauges with terrate display to the monitor system.

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97C SKA WATER SYSTEM

The installation of the sea water system should meet the Class Rules.

The piping systems are to be designed for nonlinum life cycle. Thus, we have selected 90:40 Copplet Nickel as the metallic piping material. If the Builder proposes a different material, the cost difference and life cycle design will be provided.

970-91 Sea Chests

There will be two integral, vented sea phosis in each engine mans, fitted with half screens and sea values as per the drawings and schematics.

978:02 Sea Strainers

Sea Strainers will be litted to the hell valves. All strainers will be provided with a blow-back connection from the compressed air system and year pipes.

Manufactures: Glentesh or equal.

Type: Bimplex with hingest cover

• Model: 820 - 4"

Material: 90% CoNi body with 30/70 CoNi (more) knoket

Bush valves are to be hutterfly valves. Materials are so be the best properties for life cycle and september to contamine

Manufacturer: Keystone

Type: Butterfly; tog type

Disinturer; 4*

Body Material: Nickel alamanum breaze or java

Stem Material: 316
 Disc Material: ARBs

NIC 84 Phine

The builder will use the fullowing guidelines for the piping system.

- All subwater piping and valve arrangements are to be in accordance with Class Rules.
- Plexible connections to sumps and muchinery to isotate vibrations will be provided.
- Where possible, isolation as flexible connections should be made with factory have end littings or bellows mexicans. The use of lange classes will be solationed.
- Metaltic piping will be provided to all distribution valves concerned to the sea chest and
 overbrand discharges. Where permitted by the Rules, thermoglastic pipe is to be used for
 branch systems to air conditioning, water makers and modifiery systems.
- Finid velocities are not to exceed 3.6 rats (12 fds).
- Piping systems to be function tested in accordance with BV Rules for the Classification of steel ships, Class E. Chapter 21, Section 5. The maximum test pressure to be 1.5 times the working pressure.
- Strainer music lastes to be a maximum of 3 man (1/8°).
- Spindles of sea suction valves and discharge valves below the load line are to extend above
 the floor plates as by other means be easily accombile.

- All pipe work is seamless 96/10 capro-nickel to M11.-T-16420 Class 200 unless nates otherwise.
- All pipe seems specified in the schematics are nominal hore in inches & class or schedule.
- All pipe connections to be 900 (t) closs 200 cupro-nickel but welded fittings unless pipe section is required to be rethough for parinteenings.

Vard alwice:

- All pipe connections is removable segments to be ANSI 150 flanges or as never.
- All uspe work to be adequately prototred and supported.
- All flexible hoses and bellows are to be BV type approval.
- All sea water piping shall be reprized with the name describing the system.

92C.94.81 Metablic Plying

Manufactores:

Allog: Cappur Nickel 99/1/(

Siaustande: MHL-F-16420 Chies 200, ASFM B466

Working pressure: 13.7 has minimum

07C.04.02 Thermoplastic Pipe

Manufactneett Georg Pischer as other

Type: ABS playin or Beta Polygza (diesexplastic)

Standards: DIN: 8077/8078 type 1
Weaking pressure: 13.7 bar estionatur

07C,05 Water Makers

Sec 07D Preshwara systems.

970 GRESS WATER SYSTEM

The fresh water system will comply with Class Railes at applicable and the World Health Organization and US Public Health standards for water quality.

If the Builder proposes alternative equipment and piping system, the Builder will provide commit weight differences.

07t).41 Fresh Water Tunks

There will be two (2) freshwater tanks togated in the contentuals. Total capacity will be approximately 8400 lines. Tanks will be internally costed with a Cernantone gaing system.

970.02 Fresh Water Pumps

Two (2) first water pames will be mounted, one jy each water test. The pumps with be provided with the Headhunger control panel.

Manufacturer; \$198PAQ
 Number: \$200 (T)
 Model: \$273-239

Rating: 91 April @ 2.7 Ibit (24 gran @ 48 psi)

Power: 4,9 amps (a) 70\$/3/66

Dimensione: X
 Weight: 8 kg

Control Pasel:

Manufacherer: SURPAQ
 Number: out (t)
 Model: CU-300
 Dimensions: X
 Weight: __kg

97D.03 Water Heating System

The vessel will be supplied with two (2) water heaters, one focated in each half.

The Builder will propose utilizing a weste heat recovery system from the generalist closed confine systems.

A re-circulation system will be filled in the hot water delivery in each bull. The upper deck but water supply will be bush an electric, instant has males breating classical.

Hot water heaters:

Manufacturer: Hubbajk Heaters
 Nonéset: (vo. (2)
 Type: ME 50-5-5CSR
 Capacity: 50 gal (190 f)
 Power: dad 5 kW elengat

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Dimensions: 750D
Weight: TBD

07D,04 Piping

All fresh water piping to be an ASIS plastic, or equal system. All hot water piping will be inculated to protect against heat has and prevent swenting.

Mamifacturer: Yagá elsoice.
 Type: ABS

Working pressure: 13,7 har (200 psi)

07D.05 Accessories

Mixtures and fixtures for goest, officer cabins and luxury meas are detailed in Part 12 Interior Concepts, and include:

Area	HVC stok	WC.	Toiler "	13/C tup	Cakl "
}	<u> </u>	shower	<u> </u>	<u></u>	hose bill 1
Owners abise:	<u> </u>	x	3.	L	
VIP cahin:	(<u>× </u>	X	*	· · · · · · · · · · · · · · · · · · ·	[
Figure Bishar	X X	я	<u>K</u>	l	
Mid guess:	×	X	k_		
All guest:	3	X		ļ <u></u>	[
M crew:	X	X	X		
Laundry:	1 2			3.	[]
Gattey	2			3	
#2 crew:	. ×	X	*		
#3 crew:	<u> </u>	X	X		
Capt cabing	X	Х	*		{
Port ong Taurec	{:				<u> </u>
Stud eng zaom:			[x	7.
Salon Ban:],x`			ļ <u> </u>	
Psykrádge þar:	I			Cold only	<u>x</u>
Forestock looker:		i <u>-</u> .			× }
अश्वांक करी तल्लाह				Į	я
Post issurence				1	*
Sted faxorette:	{			(<u> </u>
Port transcom:	[X	Ĭ		
Sabd managm;		. A	l]	

Notes:

- Hase connections will be conscaled in backers with the utility for hose connection to be made with the locker closed (hose by in latch cover).
- 2. Transom shower details to be decided with Owner's Representative,
- 3. Whether listed or not, the Huikler will provide required hank-ups for all applicances.

870.06 Water Pillier

One water tilter will be managed at the discharge of the water pumps.

Musicacturer: Hessilianter
 Type; HFF-73041.

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Weight: 15 kg (dry); 36 kg (ver)

Dimensions:

97D.87 UV Steritizer

A UV sterilizer will be invaried at the displaced of the water filter.

Manufactorer: Headhouter
 Type: GV-40

Power: (40 wats @ 208/1/60
 Weight: 16 kg (dry); 27 kg (wel)

Dinunstons:

97D 08 Tank Filling

The tank fills are to be located on the side deck in the first end; fill lockers. The fills will be closed with a screw cap and he 32 mm 1D.

87D.09 Water Makers

There will be two (2) water makers, bested in one cargine room, installed with proper connections to electrical supply, water health, cleaning system, product distribution and bride discharge.

Manufacturer: Sea Recovery
 Model: AWF \$80002

Capacity (each): 6844 3pd (8800 gpd); 284 kph (7.5 gph);

Power: 6LA: 8 @ 208/3/60 Dimensions: 845 w x 508 d x 432 la

Weighe 77 kg cock

The units are to be fitted with all necessary exempendeds pre-manufacturers' shouldn't sopply. Optional equipment is to include:

- Fresh water thusb.
- Media Filter assembly
- Soft motor state
- Clean ringe panel.
- UV sterilizar
- pH nemalizing files
- Chamical ringe

GEMINI Project Confract Specifications

Vito Peteghem & Lauriot Prévost Naval Architects

Weight: 15 kg (dry); 36 kg (wet)

Dimensions:

97D.87 UV Steritizer

A UV sterilizer will be invaried at the displaced of the water filter.

Manufactuser: Headhouses
 Type: GV-40

Power: (40 wats @ 208/1/60
 Weight: 16 kg (dry); 27 kg (wel)

Dinunstons:

971).08 Tank Filling

The tank fills are to be located on the side deck in the first end; fill lockers. The fills will be closed with a screw cap and he 32 mm 1D.

87D.09 Water Makers

There will be two (2) water makers, bested in one engine room, installed with proper connections to electrical supply, water inside, cleaning system, product distribution and brine disubtree.

Manufacturer: Seaftecavery
 Algebra: AWF \$80002

Capacity (each): 6814 lpd (1800 spd); 284 lph (75 sph);

Power: FLA: 8 @ 208/3/80
Dimensions: 845 w x 508 d x 432 b

Weight 77 kg cock

The units are to be fitted with all necessary exempendeds pre-manufacturers' shouldn't sopply. Optional equipment is to include:

- Fresh water thusb.
- Media Filter assembly.
- Saft motor statt
- Clean ringe panel.
- UV sterilizar
- pH nemalizing files
- Chamical ringe

Patrick J. Sweeney David R. Brand HOLLAND & KNIGHT LLP 195 Broadway New York, New York, 10007 (212) 513-3200 Attorneys for Plaintiff Gemini II Utd. UNITED STATES DISTRICT COURT. SOUTHERN DISTRICT OF NEW YORK GEMINI (LTD., 08 Civ. 6334 (LAP) Plaintiff, - នេះស្វាន់ព្រះពួក DERECRIFOR SHIPYARDS CONN., LEC, Defendant.

John M. Türielle.

EXHIBITS TO COMPLAINT PART 2

Von Peteghein & Lanziot Prévost Naval Architects

97E FIRE FIGHTING SYSTEM

The fire fighting inventory will comply with Class and MCA Large Vacta Code (LV2), as appropriate so the vessel and its equipment.

87E.01 Fire Detection System

The fire detection system is to comply with Class and MCA requirements. Fire and smoke detectors are to be fitted in each separate zone, with audinivisual plans and display panel on the mimic panel and other areas as required by regulations.

Manufacturer: DMP or Consilium Marine (?)

Type: CS460

Detectors: As required by the Rules

67E.02 Sea Water Fire System

A fixed fire union system with three (3) fire stations with combination towarles and hoses is served by two independently driven fire pumps located in each engine compartment as specified in section 6713 of this specification.

Hydrants are to be all connection type, littled with boses on stabless steel racks, the size and quantity as consided by the regulations.

The number of losses with normies required shall be provided to the satisfaction of the Administration.

Fire stations are listed in part 07th Fire & Brigg System and Schematic and are as follows:

Stations	Lucation
1	Main att deck
2	Main forvasé deck
3	Upper deck

07E.04 Sen Water Ffre Studying

The fire stations will be provided with the following equipment:

Maiatfacierer: Provincian er Acron
 Type: 02-464 ES7

Length: 18 m (59°) musieman

Elèameter: 45 com base
 Nazzles: 19 com jed/spray

12 man jeb'spray für insterior areas

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07F-05 Engine Room Fixed Fire-Fighting Systems

The vessel will be fitted with independent fite fighting systems for each engine (mont

The each engine room will be arranged with independent automatic fact, air and engine shat-downs, with enamed stops as required by the regulations or system manufacturer.

Manufacturer:

Sea-File

Type:

FM-200

Capacity:

 $51 \text{ m}^3 (1800 \text{ M}^3)$ such compartment

Einét Weight:

 $136 \, \mathrm{kg}$

NTE.06 Portable Fire fixtjuguishers

Accommodation, prayion and machinery shall be provided with postable fire estinguishers of appropriate types and in sofficient number to the satisfaction of the Administration.

The locations are to be fissed and described in the 'Pire & Escape Plan',

Prefindingry Inventory:

Location	Quality	Туре	Madel
Opper deak at bag	<u> </u>	FM-200	C-20
Salos	Į L	FM-200	C-50
Osvoer's suite	11	FM-200	C-20
VIP suite	1_1	£M-209	[ε,.20
Laundry	1	FM-296	C-50
Galley) 2 Fau blanket	PM-200	C-100
Crew quarters ast	1	FM-200	CA9
Part Baying coans	2.	6MC-200	(C-1991C-20
Sibd Engine room	7	®M-200	C-168; C-20
Port Cabin fuswant		FM-200	C-28
Port rabins aft	Į l	FM-200	C-20
Post fazareiše	[L	15/4-200	C-29
Stbd lazarette	[[I-M-200	C-28
TOTAL	1 15 fire extinguishers		

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07F PNEUMATIC SYSTEMS

There will be two independent presentate systems on board, one for the dive compressor system and one for the home installation. In addition, there will be an emergency cross-over between the air born province and dive compressor system.

- Air home system.
- Dive compressor systems
- Distribution piping

97F.01 _Air Hora

The air horn will be a Kaltlerberg supplied system.

Manufactanez: Raidenberg
Model: T-2
Hora Controller: M-511A
Renote stations: (2) M-131A

 Companyor:
 Kahlesberg

 ★ Model:
 Ka2000 Oil-less

 ▼ Power:
 9 kW 208/1/60

Delivery: FAD @ 5 har: 88 lpm (3.13 cha)

Air Receives: M-488

Capacity: 2.63 ft³ (19.7 gal)

Total Weight: 30 kg

97F.02 General Preparatie System

A general promunatic system will be provided with air distribution system (world to all medinical areas of the vessel. The air supply will come from the air term receiver. Hoses connections with be by Parket quiete connect images. Air delivery becatenes:

- Upper deck toeker
- Procedeak logker.
- Port engine room.
- Ståd engine ruom
- Port lavacene.
- Stod Jazanette.
- Cross avec alley.

07F.63 Heing Air Systems

The tieve air systems will be supplies by the Smilder and is to be as specified by the Owner's Representative.

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07G WASTE WATER TREATMENT SYSTEM

The waste water recommunit system will comply with MARFOL Annex V and 33 CFR 153 regulations.

The concept of the waste water measurent systems are as follows. Please see the attached schematics for layous.

- In each hell, black water will be nollected in two receiving sanks (one find, one aft) and
 transferred to a finding tank in the keel. From the bolding tank, the transport system with
 treat waste before discharge. The bolding fank can also direct discharge everytored or to a
 deck nown out station.
- In each bull, gray water will be a gravity system, collected in two receiving pump units 25th stansferred to the holding ranks in each respective bull. The bulling tank can also direct discharge overboard, to the other bull or to a deak many but station.

07G.01 Piging Springs

The waste water systems are to be installed according to the schements. Requirements are as follows:

- The slope on gravity drugs is to be a minimum of 1:96
- Piping to be in accordance with WV 2003 Rules: Part E, Chapter 2f, Section 3
- Test pressure to 3 bar
- All p\(\hat{\phi}\) into have solvens welded jours vales connected to equipment or providing for service paces.
- Affidrains will be provided with year traps.

Piping System will be:

Type: ABS
 Schedule: 46

 Connections: Solvers with or Stakes against

<u>87,67.02 _______ Sump Pumps</u>

Sump pumps will be isolated from the half and provide transfer of gray water. Each pump will take a level season and control system for transfer to the holding tank.

Manufacturer: Steadhuider
 Model: Chinagk CHK-AC
 Number: Four (4)

Capacity: Utility

Power; 3.5 armp @ 208/66/1

Weighn 14 kg.

07G-02.62 Sump Tank Pump Control

The samp paints are to be fitted with both automatic and mastal switch course from the resend's coursel and maintar system.

0752-03 Galley Stuk Septem

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The galley sink drains will be provided with a magnatur and greate containment system. The subcreators will be local at the sink. The greate grouper will be mounted in the athel engine toom with easy access for cleaning.

Manufacturer:

Headbunter: Gressegrouper

Model;

GC13,3

Power:

20 angs @ 120/60

Weight:

16 kg (22 lb)

Macerator:

Maunifactuser:

CRT

Model:

1330

Power;

- 2 angra (i) 12(1/60

Weiglet:

80 kg (22 lb)

07G.05 Tollet system

The toilet system will be a jet that system, supplied by the pressure fresh water system.

ំ នៃងមេដែលស្រាស

Hendfigner

Nonsiber;

Ten (10)

Type:

RFA-02; Apro Wall Mounted

Plash mits;

AK-24

Woigla;

25.4 kg

Note: the owner's saide and VIII suite will have the bidet accessory provided.

07G.06 Black Wang System

Such half with large non-integral black water collection tanks as per the drawings. The tanks with be provided with himse blowers for pre-measurent and acceptate. The collections ranks with basisfer to the holding leak prior to the treatment system.

Control systems and two sings, will be suggified by Hezdjamier.

The Builder will be expensible for:

- Pager flow of waste water
- Supply of non-integral tanks.
- Internal coating of all tanks with Cerambote

Waste Treatment System

Each half with have independent waste water treatment systems.

Manufacturer: Heerflunder
 Type: Timal Wave
 Model: TW-S0LP

Dianersions: 18" high x 12" deep x 48" fong

Power: 4.8 umps @ 208/1/60
 Weight hodget: 82 kg dry; 264 kg operating

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07G.02____ Waste Water Printer

DiadelGray water discharge pumps:

Headlasstor/Grandfes Manufactutor:

Model: 班 75 Number: Fear (4)

Powers % կց @ 208/1/60 THO

Weight:

Binck water (master party)s:

Manufacturers Readhugtes Modelt Mako M1-230

Number: Four (4)

3.2 aggs @ 208/1/60 Powers

Weight: 29 kg.

Black water agration pumps:

Manufactions: Escadinggree Model: FILR 1.80-239

Four (4) Natidier:

9.25 amps @ 208/1769 Power:

Weight: TRD QDHF-28 Diffuses:

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97H HYDRAULIC SYSTEMS

07H.91 General

The yacht will be omfitted with four (4) independent hydraetic systems. For design purposes, we have divided the systems in groups as follows:

•	Port bull thruster system.	Groups §
•	Sibd hall distinter system	Group 2
. •	Maist hydraulie system	Circaip ()
•	Styering avstens	Green 4

Groups I & 2, therister systems, will be independent in explainall, i.e.: Group 1, the port main engine will drive the post side thrusters and Group 2, the other main engine, will drive the stird tries thrusters.

As indicated in part 04 Main Engines and part 06 Thruston, the thruster systems will be designed to operate with the engines in a "maneuvering" mode. The engines will am at a constant rate with absordance a maneuvering provided by the variable pixels propeller control. The purpose of this method is that the operator will be able to provide sufficient thruster and engine power without needing to (dis)engage the year box.

Genup 3, the main hydratic system, will be a load sensing system, powered by the generalists, consisting of a custom power pack located to the part origina easie. The esset configuration is to be determined.

The steering system will not be discussed further in this section. Please refer to past 3 Steering Systems for infrantation. However, 28 systems engineering, part 07H,07, is applicable.

Ast power ratings are provisional pending final design requirements.

As applicable, cartical franctions will be mounted adjacent to the given service, with casy second and visual contact if operated manually.

The Builder may propose alternative equipment and design that will decrease the system weights, improve efficiency and life cycle of the equipment.

<u> 18711-02 George Pancilpus</u>

0711.02.0) Group [

. -.

Group 1 will be powered by the post stain engine with control valves lossed forward of the engine \log

- Post base threster
- Post stern thruster.

0711.02.112 Group 3

Group 7 will be powered by the sabd main targine with control valves located forward of the engine for:

Sibd bow thruster

٠.

è

Sthd seem throusase

078f.02.03 Group 3

Group 3 will be powered by the main hydrautic pack located in the part engine mons. Main feel and return times will be run to the respective local control valves will blocks as just the selectionation.

- Furward distribution will be from the fore deck suchor facket area;
 - Post Wieldfass
 - Stly! windlass
 - Port granting and spinnsker winch;
 - Stack motoring and sphrouker winch
 - Gegmaker finter
 - Juncy beatistary for less
 - Outer headstay failer
 - A[I gast hydrautics]
 - Main halyard winch
 - Mast winch t
 - Mast whech 2
- Upper deck distribution will be from upper deck technical space;
 - Genoa captive rest port
 - Geneal capeve reel stad.
 - Staysaší sapišky necš porti
 - Smyspil entries (cot stild)
 - Main mil traveries
 - Vegt germaker windle
 - Stiri gennuker wirden
- All distribution will be from each tassiche area.
 - Shoë hall side dans
 - Aft sight mooting សម្រទាំងប
 - Stilld laxarente tender hoomis
 - Port grusom passarelle.
 - Bost panisher boxtorur
 - Post gaussus step door
 - Aft polf mooring capstan
 - Main Intil sender doins

07H.01 ____ Hvdraulie Controls & Monitors

Groups 1 & 2 will operate independently of each other. Each group will be activated from the main bridge spalson with full operating control from the main bridge and both flybridge letter stations.

The thrusters systems will be monitored on the vessel monitoring and alarm system. The monitor functions are:

- Oil temperature*
- High oil temperature, Alatto*
- Low oil level alarm, Warning*

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System pressure

Engine soom monitors and gauges, port and sthd:

- Possure filter elegging indicator
- Return filler chagging indicasur.
- Pressure: visual indication of the pumps and at external councils positions
- Note: The to the common oil reservoir, Group 1 incomers are contents with Group 3 medians.

8286.02.42 Gegap L

The main power pack will be a Load Sensing system. With this type of system, a pump will deliver the astronal of oil required by that particular valve, with the added feature that a number of services can be not at any one time, from one or more pumps as the demand requires.

The pump controller will take the three pumps in service between principly and stard-by nervice.

There will be no energency stop soonled at each exterior being station for the suifing limitions.

The main hydraulic power pack will be expainned on the wassel autoinging system. The maintain function are:

- Oil temperature
- High off resuperators, Aftern
- Low oil level alarm, Warning
- System preasure.
- Low space pressure, Alarm

Local moniters and gaugest

- Pressure filter clogging indicates
- It seems figure aborgoing indicates
- Pressure: visual indication of the pumps and at external conside positions

#7H.03 Power Supplies

The following prover supplies will operate the hydraulic systems.

The Builder will design and supply the hydrantic oil cooling systems.

97H.03.01 Group I & 2 Thruster Pawer Supplies

The ratio engines will drive a single pump or ser of tandem pumps for the bow and stem dangers. The pumps will be litted with remote activated chatches.

•	å-fanufa-grater:	TBD
•	Number:	TBT)
¥	Type:	าชอ
•	Power:	TED
	Oberating truspare:	TBD

GEMINI Project Contract Specifications

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Flow rate: TBD
Weight: TBD
Diponisions: TBD

9211.63.92 Group 3; Main Payer Pack

One right motor, custom power pack will be provided for the main hydraulic system.

• Mainfachter: Eewpara

Type: Castons Constraint 10 € 10 € 200

Operation: Load Sensing

Power: 3 x 9 kW (estimated)
 Operating pressure: 140 bar (2000 pst)

Flow tute: Variable

Weight: 300 kg Estimated

Dimensions: (non-integral) bull tank with top mounted puress)

6711.04.01 Hydroutte Oil Fittering System

In addition to the standard biling particle littless, the main power pack will be arranged with an off-line filter system. The systems will have start/stap control menually by the engineer with plarms and pressure system stops as recommend by the maserfactures.

Manafecturer: CC Jensius A/S
 Model: SEDG 15/28 PV
 Flow rate: S20 t/k
 Power 20875/60; 1 kW
 Dimensions: 425 h x 345 w x 240 d

Wright: 22 kg.

0211.05 ____ Nexten Engineering

The Builder most excelleby review the hydraulic system design for this packt in order to provide the least sociation for the high atomber of seavices required.

The Huilden will calculate the Englicapacities of the reservoir tanks-

The system should be designed for:

- House of making games
- Plexitality
- Safety
- Reduce pipe work.
- Maximize life pysits of the components

0711.05.01 Mounting of Pumps, Valses & Components

- All pumps to have flexible tails connecting to rigid pipe work.
- The valve blocks and all other ancillary units reloting to, or epanceted to pipe wask shall
 be isolated to the structure for noise and vibration.
- The significance for must be softably isolated to the spructure for make and vibration.
- All deck machinery such as windows, whichever, etc. to be immediated on sound decidening, butterial.

0711.03.02 Place Wark & Mounting Brackets

All pipe work is to be stainless steel high pressure taking. Fritting will be highly polished in areas where visible. Parts that cannot be obtained in stainless steel shall be properly control with an application of epoxy paint. The mountacturer of the pipe amplier is to be agreed upon with the Orace's Reputations before installations.

Afanufighrer: Puilders supply

Pipe standard; ASTM 269 or Fig. 24131 og uppkedde.

Pipe filtings: Stainless steel congression fittings are to be 4463 on

all page work of 1" and below, the same ramodectors: to be used throughout the vessel's hydronian system.

Connect piece size to be solected to mistiniste turbulent flow.

All pipe mus to be kept as straight as possible

Long ruffies ellsows are to be used only unless flore is no other substion.

Piping is at he secured in brackets using UCC or RSB type rubber isolation.

All watertight bulkhead penetrations are to be pipe rections (not lease).

Bulkhead penetrations will be as specified in part 92.15 Watertight Penetrations

Pýpe člasný spacing is to be as follows:

gipe Sizy Spacing

2.50 mm
10.00 mm or every frame, which ever is less
10.00 25 mm
\$500 mm or every frame, which ever is less
\$25 mm
25 mm
25 mm
3600 mm or every other liming, which ever is less

<u> 1878,85.83 – Hases & Mayorilda Registids</u>

ទីលែក ខ្លែងសេរីជាប្រឹក្សស ខេត្ត ស្រ ដែល ១១ វិត្រីប្រទេស

- Planible lyose are to be specified having a miximus 4:1 safety factor.
- Pienšķie hase taila to be, in general, a previenost of 1.5 noter long-
- The ends to be of smittless unless otherwise stated.
- Noses are to be R7 i R8 above dock with sminless swage ends.
- When Bexiltie houses are used, they must be shighled and/or secured at chaft points.
- Hosse will be clamped at every frame specing of chafe points.
- Where there is a fine-hear potential in close pagetasity us a large, a fire sleeve must be fixed.
- Flexible large may be used when trying to hard pipe in contined areas, thus saving too many complicated bends.

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07H.05.64 Noise Control

The hydrautic system withbo designed for maximum troise control. Of primary importance is the operation of the Main Hydrautic System for Groups 3, The Builder with work with a poise and vibration specialist to minimize anise from the hydrautic system.

Fluid borns noise is the autjor problem and normally generated within the pump. Consultation will be considered for:

- Promp selection.
- Select the correct size of pipe to reduce turbulent flow
- Minimize the number of pipe heads.
- Use of the correct pipe clarm and incation
- Use of teautive allegeer.
- Estate cusual all irons in the system such as winches, piping, valve filtures and equipment.
- Always recensioner rigid sinistess sweet pipes with the rible tails when above 76 mm in diameter, it is acceptable to rigid mount some of the smaller pipes below 16 mm.
- Use proper isolation mounts for equipment.

8714.06 Safay

- Reserve years step is to be pervided at each flythridge lesses starion.
- All equipment installed is to be operated within the sizess limits laid throughly the testinifactorer.
- System to be designed so that all corresponents are easily accessible for adjustment and service.
- All valves with manner override facilities should be lucated within sight of the service being operated.
- No slop valves are to be fitted in artism lines.

<u>9711,97 Datumpytation</u>

The vessel will be supplied with full technical documentation will be provided in separate binders and on CD; to include:

- Two (2) copies of numeric and service schedules.
- Two (2) acts of drawings.
- Pipe drawings
- Schedule of parts
- Service liferature on each pump, valve, filter, etc.
- Basic service instructions.
- Electrical/control circuit
- Hydraufia dock snaphingry data

97H.08 Testing and Commissioning

 A full test and commissioning program will be proposed by the Builder fer the approval of the Owner's Representative.

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078 FUEL SYSTEM

There will be a total of six (6) integral aluminum first tanks, including the service 60th, heated as per the drawing: T07 Tanks Position & Geometry. The tanks will be located in the midships service of the wet dock. Tank vapacities to be displayed on the monitor system. The tanks will be constructed and provided with fills, veols and service connections in accordance with Class Water and MCA requirements. The fact system with he according to the drawing: S_03 Fuel System Solvenatio.

The fact fill and transfer system will be justified in the tank space for control of filling and transfer operations. Filling will be from the part and whole speck lookers with remote account fill valves, directing fuel to individual tanks. The fuel transfer system will milize remote account station valves and discharge via the fill valves.

The first supply system for each engine mean will have first from a single service tank, because in the tank comparament. Each engine mean will have remote stop valves on both the supply and return lines.

The fact parifying system witt be meanted in the stad engine manu. The system will draw fact from any tank and discharge to 207 tank.

Pact delivered to each engine room will have a booster passe apounted in parabol for printing of engines and filters. There will be a feel conditionar installed to each engine room supply. Individual liters will be installed for each engine.

074.01 Storoge Tanks

Each storage lank and the service task with he provided with:

- Rach with its own electrosus level indicator.
- Rach with its own magnetic fevel indicator.
- Rach hade with piping connections exper drawing: S. M. Pool System Schematic.
- Docking plags.
- Too mounted emphales clear of any permutant equipment or pipe histallstions.

971,92 Transfer Pamys

Five (2) by tuze gear fied transfer pumps will be installed in the tunks space, at per the schemotica.

r Markefachirel; Elberdarfer

Type: OB-N970[f-S5-39][f8BCf-ER

Power; 1.5 lp; 208/3/60
 Motor sites; DRFC, EFE/43

Flow: 436th (sql sql 2.75 bor (19.2 gpm @ 40 pxi)

Weight 24 kg

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07L03 . Fuel Purifier

One (1) fact celebritage system will be installed in the other engine room as put the schematics.

Manufacultus: CC Imaen Model: P1tJ 27/27 P-EW

208/3/60 Power: (gpm Performance: 78 kg (dry). Weight

074.04 First Printing output

Power:

One (1) fuel priming pump will be installed in each engine room 28 per the schemation.

Waltiro And helding turk to

Model: 6866 Lastro 24 VDC

(1904 f) magy (13) web 25%, (6) digh 1908) Performance.

Weight: 3 kg

a76.95 Pipia<u>y & V</u>alves

The Baibles will use the following guidelines for the installation of the facilities:

- All tabe so be searciess amecaled sprinters steel grade 3 bil. in ASTM A269 standards.
- All stainless steel piping and fittings are to be bend blasted finished.
- All pipe sixes specified are OD.
- Freezible pipe emplings and their installation are to comply with the requirements of NV
- All pipe connections are to be 316 grade stainings stock han welfied thrings unless pipe spotion, is propieted to the serrospect for majplemence as attached to equipment.
- All littings in removable sections are to be Swagelock or Banged manufactured from 316. grade stainless steel.
- All valves age to be of fire safe Standess send construction to AP1607
- All half valves are to be of 3-part coustingsion.
- Preconatically operated valves will operate at 7 kgr (100 psi).
- Aft prengratically controlled valves are to be arranged for total manual operation. These valves are 28to to be provided with a meast of indication of open and above position as each control position. In addition, fiscal indication of valve position is to be provided at the valve position where direct negonal operation is required.
- Where find such are fitted with indet in which pipes below the level of the accorded overflow pipe, shut-off valves are to be facatest diseastly on the tank. Stub pipes not longer than 1.5 of the pipe districter, between the tank and the valve, stay be accepted.
- Pipe work will be color coded and swaked with the description, i.e.: Diesel supply, Diesel retuth, etc.

071.06 Funt Canditioners

 Magnetic fiel conditiones will be installed in each engine room supply line so as to serve all cagines.

Algae-X or gauge M≱mitBetuser: Series: LGX-1590 Post sipp. 3/4"

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Flow rote: 350 gplt
 Weight: 9 kg

475.47 Fugt Filters

The fuel fifters will be provided as follows:

Engine	Comerator	Main Engine
Fifter Model:	500 MAX-P	75/900 MAX-P
Notaber of :	3	2
Filter Bemest	2 militan	2 micron
FR: glat	292	402
Wides	147	476
<u> (Հարժի</u>	122	279
Weight	1.7	10.4

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07J LUBE OIL SYSTEM

Independent labo oil systems will be instalted in each half. Each system will emosts of a distyoil makeing a please oil tank. Refer to the atrective schematic: Labe Oil System schematic.

- An independent diety oil pungs will durin the engine gamps to the diety oil tank and also discharge the diety oil tank to deak.
- An independent clean wil group with bose year will provide elean all for distribution.

OZLAI Clean Lube Oll Tank

The clean lone oil atorage tooks will be 500 liters each, located as per the drawings.

The chem of supply will be lilled know be sequentive fill tackers on the post and shid deckni

174.02 Diny Lube Oil Tank

The dirty like of storage tooks will be \$50 likers tack, located breweet of the engine room as per the directings.

The dirty oil will be discharged by the firsty oil posop to the sespective fill lookers on the page of and start decks.

The Builder will provide a 16 or hose with quick content (ining to disc)sage the diffy oil achieve.

<u>071,93 Oil Pumps</u>

The dirty oil psimp will be used to empty the selected engine samp and discloring the dirty oil tank to deck using a 3-way valve system.

The clean tilt purisp supply the lane reel system. The birst real system will provide till to the engines via a motoring norall.

Pumps will be provided with a pressure limit switch at relief valve to prevent over-pressure of piping and hoose.

Supplier Depto
 Manufactoric: Oberskrifet
 Number: Four (4)

Model: ()B-N999J-30N12BTC-W

(75 kW/ 208/60/3 Weight: 27.41sg vicht

07X.03 Piping & Valges

The following shall apply to the delivery piping systems:

- All tohing to be searchess stainless steel 346L to ASTM A269 or equal.
- All firtings in removable sections are to be Swapehock or flanged manufactured from 316 grade studiess seed.
- Tubing bends wift be long radius.

- All valves are to be full base ball valves
- Engine snamp connections to be flexible Aeroquip PC234-12, SAE 31942 hose with best
 jackets in occordance with the Rules.

Aft valves will be full hare brouge valves,

Manufactura:

Свитасо, от едиал

Type:

Full bore ball valves

071.06 Oil Reel

As all rect will be provided in each engine morn for adding all to the engines. The restrict will be equipped with a metering device.

Mangafychurer;

Reclaral)

Type:

5600 OLS

Hose ID:

39°

· Hose Longtin

30 feet

· Dinsensiones:

TBD

Weight:

t0 kg (est)

Metajing Nozzle:

Manufactures:

Liquid Dynamics

Type;

95520

Part Net

530(09)

W.L. | Tank Monthly System

Clean and disty oil tank associating will be provided and will display on the versel monitoring system.

The Shilder with finalize specification details of the maniforing systems.

Ditty Oil:

Manufactures;

Headburte(

Type:

2'86

Controf limit:

5Y943Q

Outgert signal:

TBD

Clean Oil:

Magnafactister:

Gerate

Type:

Sure site mismi alloy

Cantrol Unit:

TEU

Outpot signit):

स्वर

GEMINI Project Contract Specifications

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97K BAR, CALLEY & LAUNDRY COUPMENT

At this time, a design consultant is reviewing the design, layers and equipment for the gailey and laundry. The following is provided as a proliminary list such data ferm of an initial proposal what was to the effect's wishes.

<u>078.01</u> Convertion oven

Manufacturer, វិទិវឌ្ឍបុស្រាជ Model EB 388

Distensions: 860 x 560 475

Power. 5.8 kW 2 NPBAC 400 V TEE

Weight:

<u>#</u>7K.03 Conk for

Maidifactures: MKN Kuchenneister

Model: 2 piece induction range with 2 zones @ 7 kW

Lindaction work 例 5 kW 1 griddig plate @ 2.2 kW

Weight 190 kg

<u>075</u>.03 Combi Oyen

Masiofaytiisec : Plans Dangell Model: Gold 6 1/1 GN

Power: 10.9 kW 3 NPEAC 440 V

Weiglst: TRO

*Q7K.01 Містанач*е

Manufricturers Parasonic Misfel: NE 1037 Power: \$3 апры

Q7K.05 Ice Maker

Manufaciuleic Spotsman Jue Mixlef: ACS 125W Dimensions: 675 x 521 x 897

Weiglet: 48 kg

87K.06 Under Counter Frig

Маниверитет Pastus. Modes: LH 150 Power 120V, 13angs Weight: nbd

97K.02 Uniter Counter Freyzer

Munufactigies: Poster Model: LR 140 Powert 129V, (3amp

GEMIN) Project Contract Specifications

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Weight

TBD

Τεανή ςοργουσεος 0750,08

Insinkeratur Manufactuer: Model: 825133

310 x 510 x 840 Dimensions: 120 VDC Power bt kg Weight

07K.AZ <u>Dish Washer</u>

Mielo Majadactores: G7855 or 7859 Modela

Dinscusions: ff \$5cm, W668cm, D 69cm 9.4 kW 3N0/EAC 4089Y Powers

TBD) Weight:

Sinks <u>07K.11</u>

All sinks use to be a selected by the interior design or gatley consultant. All sinks are in be filiach with waste digensal unius and drain to a bleadhdrain Grease Company system located in the s§bd engûæ roosa...

Type:

Jaishakeraant braind 3/4 kp anothry containages feed Or Viking VCGW 1020 continuous fixed axidely

97K.12 <u> Woshing Machines</u>

There will be two washing machines. Washing machines will require remote liquid dispenser für detergents, den 16 die dryers being fitted above and blocking the regular fill drawers.

Magafacturer: Miele professional 7.5kg WS 5073-MC23 Model: B Milene W Breen, D Thesis Diggensions:

3 pluse @ \$.5kw. Power. 247 84

Weight:

<u> Deving Machines</u> <u>075 J.J.</u>

These will be use dryets.

Mich professional 7.5kg Maggfacturer;

Ţőiki Mondi:

Diagramsions: H 102cm, W 73cm, D 72.5cm

3 րեսչև @ ֆ.5% ա Power:

Weight: 75 kg

07K.14. Rotary Ivan

Misfe Maggaattaren:

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Model: HM 16-83

Dimensions: II 96cm, W 105cst, D 38csts

Power: 3 kW @ 209/60

Weight: 38 kg

07K.35 Majo Salop Bur Equipment

The siden bar will be arranged with the inflowing equipment. First design is to be determined by the interior designer.

075, 15.01 ____ lee Maker

4:5

Mantafaceauer: Scetsman loc

Model: ACS \$25W
 Dintersions: 67S x 521 x 897

Weight: 48 kg

87K.15,83 ___ Bar Erldge

Mamifacieiser: Cairism, or equal.

Mudel: ECO/22GVS with remote conspressor

Dimensions: \$40 % x (16 w x 513 d)

Weight: TRD

Chronity: Storage: x kg (x lb)

07K.15.04 1970c Cage

* Manufacturer: Euro Cays
* Model: 5964T

Dimensions: 874 h x 654 w x 658 d.

प्रशंद्धात: पश्चित्रह

87K | 5.05 | Bar Glass Washer

Manufacquer: Minüt Professional

• 34ndet: (37855

Dimensions: 850 h x 698 w x 600 d
 Power: 3 kW; 3 phase option

Weight: 70 kg

078, 15.06 Bur Coffee Machine

Manufactures: Juan/Capresso
 Model: \$9 automatic

Dinumainus: 356 b x 356 w x 387 ф

• Power: 1250 W; 120

Weight: 11.8 kg

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07K-16 Fly Bridge Ray Equipment

07K.16.813 Inc. Maker

Manufacturer: Scottoman Lee
 Model: ACS 125W
 Dimensionse: 675 x 521 x 397

Weight: 48 kg

Smaller option:

Manufacturer: Scotsman, Icc
 Model: SCM 45

Power: 450 watts ; 230/1/60
 Dimensions: 790 it x 457 w x 523 d

Weight: 43 kg

Production: 38 kg per duy

Storage: E5 kg

07K.16.03 Bur Fridge

Manufachiese Gunko, or equal
 Model; MG/150G

Dimensions: 849 to x \$46 or x 513 &

 Power :
 208/60

 Weight:
 TRM

 Copacity:
 144 bottles

078.16.0) Wine Cave

Manufacturer: Puro Cavo, or equal
 Model: \$2647 "Visionspick"
 Dinespeions: 874 h x 654 w x 698 d

Weight 72 kg
Capacity: 195 bettles

08 BUH.T-IN REFRIGERATION AND FREEZER SYSTEMS

18.01 General

In addition to the galley refrigerators, there will be a walk-in chilled soons with freezest rooms inside, located at the forward cost of the galley. The boxes are to be custom designed by the Buikier and constructed in stainders specify to utilize the available volume with consideration to other technical payvices to the area.

There will be a frozen garbage compartment becated in the aft schol half helow the crew deck. Construction details to be determined.

All religioration systems will be provided with deal independent compressor and evaluation systems for reductions.

Other requirements as follows:

- The twirigeration systems will operate between 1.5 to 3.5°C (35 to 35° F).
- "The lineaux systems will operate between "-15 to -18°C (45 to 0° F).
- The chilled gartage systems will operate between -3.3 to -1.6°C (25 to 29° F).
- Dimensions use as per the General Atrangement drawings.
- High efficiency insulation will keep assupressor sizes reduced.
- All anifs will be AC powered.
- All congressors will be located in siled engine room with water cooled condensate.
- All hoxes to have interior light.
- Excepts and garbage compartment duor gastots are in have heaters.
- Ast boxes to have dealerplay with planshed drain system and/or a means to clean and are so have heaters.
- All boxes to have individual temperature council with remote thermometers (CF) for local display.
- All boxes to have individual abus-off switches when not in une.
- All boxes to have storing suck systems of food grade stainless steel.
- Temperatures will be conditioned by the vessel quadroting system.

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09 REATING, VENTILATION & AIR CONDITIONING (HVAC)

Of primary importance to the Chent is the quality of the HVAC systems. It is important that the system gravide adequate cooling is all climates and that make-up air he sufficient for maximum air quality. In addition, the air main deck will have provisions for enclosing a large area with cisenglass, and this area is to be provided with fun coil cooling. The details, dimensions and volume of this area is to be finalized.

The versilation systems are to comply with applicable Bureau Veritas Class Rules, as applicable. All year and dust systems will be provided with necessary controls and air dampers and invalated for fire protection as sequired by the Rules. All intake verts will be insulated for thermal and fire protection as required and attention will be given for maximum sound dampening in all aspects of the installations.

We are presenting a preliminary proposal from AquaAir for a fast call system with make-up and extraction air systems. Delta T has specified the engine room ventilation systems. The Builder may propose afternative equipment and arrangements provided it saves weight, cost and efficiency. The Owner's Representative will have final approval for alternative proposals.

99.01 Air Condidaning System Design

We have worked with Agus Air Marine Air Conditioning System, Hisland, Pl. for the design and supply of the air conditioning system will be a children water, fan and system will be a children water, fan and system.

The Builder will consult with the system supplier on the use of a duried system for the appear deck salon, bridge and main sulon.

The temperature in each consparanced will be controlled by digital decreosates. Make-up six and extension air will be from controlleral units.

The yachs is introded for use in trapical and temperate climates and is to perform to the following conditions:

Design Conditions:

Sklatislads	Owtside	35°C @ 85% RH	$95^{o}F$
	Ensiste	23°C ∰ 50% RH	73.5°F
	Seawater	30℃	86°F
Wänter	Outside	\$090	41%
	luside	25°C	6946
	Seawater	S°C.	43"9"

09.01.91 Chilled Water Pipe Systems

All chilled water distribution piping is to be a light weight system. Tubing design is to be in accordance with the system supplies design requirements. Required data points will be provided for control by the vessel control and monitor system. All piping will be insulated to protect against hem less and prevent sweating.

•	Туре:	Coppet
*	Standards:	Турс М
	Working pressure:	TBD

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89.01.02 Duct Systems

The ducting systems design is to be in accordance with the system supplier design requirements. Where exquired, all ducting will be inculated to protect against heat transfer and prevent sweating.

The duct systems will be provided with some dampeners of clambers to minimize moise from far coils or air clampe systems.

Provisions will be provided for access to ducting for adjustment of those control valves and access prints for cleaning and replacement shall be omsidered by the Buildes.

Note that the interior design has limited apage, available between the appeture and everlyible.

Duesing in propy group will be required to be that rectangular sections to accommissible the firmited space.

09.02 Gaffer Aje Systems

The Builder will design and provide the galley air systems to comply with the provisions of MCA section (4n.4. In addition to the fan cuit systems, the galley will be provided with:

- Extractions vir stove boost with his balonce firsh his intake system.
- <u>Patienated</u> anaximum copacity of 1500 m²/as.
- Variable speed extraction air system.
- Storm bough exchanguastring systems with alcolaically operated for damager.
- Required amergency slaut-offs and counted systems.

9.03 Engine Room Ventilation System

We have weaked with Delix "7" Systems of Palen Beach, 14, for the design and operifications of the engine mean ventilation systems. It is requested that the Builder work with these companies for the supply and installation of the ventilation systems.

The yearllation systems are to comply with Class Rules and MCA section 144.5 as applicable.

The part and said ventifiction system pass up through the cabin deak, up through the salest with incake and exhaust air iniat climinatous on the upper deak countings. Components are as specified in the attached sproudsheet Deita "T" Systems qualities.

69.04 Forward Lockers, Lazurette und Tender Compartment Egytilation Systems

The legarate and tender compariment ventilation systems are included with the six conditioning system. As these compariments will contain hazardous materials, i.e. petrol and battery systems, the ventilation systems will provide a minimum of 6 pir changes per hour. We have selected make-up air landlers to provide fresh air to the compariments to control landidity.

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10 ELECTRICAL

101.01 General

The electrical equipment and its installation about tracer the standards of BV Class and the standards and reconstructed practices of the American Bont & Yacht Connect.

Athas Marine Systems has performed preliminary clospical design work and a load study for the electrical system. Effectivel panel dimensions and one-line diagrams are provided, in addition, calculations, studies and descriptions will be provided as part of the vessel electrical system agency classification documentations.

The AC electrical system will be a 129/208 VAC, 3-place, 60-Fiertz system with a grounded scoural. Circuit breakers will be 1, 2, or 3-pole as appropriate for the load. Ground conductors will be included in cables to all AC power users.

The majo DC electrical system will be a 14VDC system with grounded negative. Circuit breakers will be 1-page with two conductor circuits to each.

A 17V(K) electrical systems with grounded negative will be provided in the area of the wheelsause to power computer monitors and other 12VDC instrument leads as required. The power supply will be than a DC-DC vallage convertes. Circuit breakers will be 3-pole will three conductor circuits to each user (positive, negative and ground).

When at sea, the electrical power will be provided by three (3) diesel engine driven government two in the port origine room, one is the sthe engine room. The generator controls will allow assumated as manual paralleling. The Main AC Switelshoard will supply electrical power to large users and to sub-distribution passes tocated throughout the vessel. It will have a split large and the bus tie switch will be normally closed when the generators are paralleled.

Two share cables will be provided near the stem of the post lazarette to allow connection to share generated electrical power when desired. The share cables will be connected to an Atlas ShorPOWER frequency converter. Preferances output power is estimated at 69kVA.

An Atlas uninterroptible power supply (OPS) will be provided to provide clean, spike and onign-free AC electrical power for audin-visual entermientent equipment, communications equipment and other units sensitive users. As part of this system, a "critical food AC bas" with battery backup will be provided to supply devices that require uninterrupted electrical power. An example of this type load is programmed enuntainment system happens at videocostette mounters that lose their settings during power onlages and must be reprogrammed by the crew after each electrical power unlage. The output voltage of the OPS will be a {120/240 VAC, 60 berts) system. Preliminary output power is estimated at 12 kVA.

Lagider type cable trays will be provided in stream where large numbers of electrical power and control cables storage. Cables will be haralled in a transper that prevents mechanical and opposing damage and prevents electrical "creescalle" and interference between electrical systems.

Att electrical equipment, including junction boxes, is to be accessible for service and trainleannee.

Bond all electrical equipment as sequired by Class. This hactudes bonding of metal enclosures to bull ground and high quality marine wiring practices.

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Warring labels will be installed where appropriate.

Electric maters with he TEPC type, rated for continuous duty and have an ambient temperature rating of 45 degrees centigrade in engine cooms and 40 degrees centigrade alsowhere. Motors that are part of another system, such as air conditional air handlers of other appliances, are exempt.

Emergency lighting will be assumatically activated if main AC power is less. There will be at less one energency light in each major compartment and passageway.

10A.02 SURCINICAL CONSTRUCTION PRACTICES

10A.02.01 General

Persons installing electrical will be maked market electricisms femiliar with quality marine electrical constitution practices.

10A.02.02 Electrical Cable Construction Practings

Electrical entitle installation (General):

- All cables used are to be rated 85 degrees Clossignate initialinum.
- Both ends of all electrical power, control and ground cables will be clearly identified with permanent identification tags based on cable BD numbers provided in the electrical system design documentation.
- The following types of cables will be suggested from each other throughout their conice lengths: control cables, instrumentation cables, entertainment system cables, AC power cables and DC power tables.
- Stuckted caldes will be used where specified in the electrical documentation.
- Cables specified by equipment manufacturers will be used.
- Meetric cables consected as resilient mounted equipment will have sufficient length to allow free movement of the equipment.

Elegrical exple mataliarion (Class Requirements):

- All cables used in the construction are to be approved by the classifying society of constructed in accordance with Class rates or to a recognized smadard.
- Califes turns are to be selected as to avoid recalentical damage, water, oil, feel and
 excessive temperatures. Where cables could be exposed to steelstein damage, they are
 to be armored or protected by a couldn't.
- Cables snay and run under Bears where practical.
- Where cables pass through watersight buildscade or decks, watertight glands are to be fitted.
- Where califes sees through a non-wateright bullthead, decks or other structural metalests, they are to be sentected against that ing.
- Cable support eays, cable clips, glands and bushings are to be of controller resiston
 materials.
- The distance between cable supports is to be about 66 + 20 where d is extensal dispactor of cable measured in centimeters. The maximum allowed dispace between cable supports for cables is 50 centimeters.
- The minimum head radius for cables is 4 d for the mapfirstic or rabble insulated
 cables without metal covering (6 d if d > 25 cton) and 6d for the same cables with metal
 covering.
- Cables are not to be spliced except in approved metallic junction boxes.
- Cables are not to be attached to any tunk or pipe carrying fuel or till.

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39/4.92.03 Electrical Hazardous Areas

Electrical installations in the part and stild legislette and tender compariment will need to comply with MCA Rule [4,1,5 for stowage of petrol and other highly flammable liquids:

Electrical equipments should be located welf clear of those areas where flammable gases are likely in accumulate within the space out be so constructed as to prevent the escape of spacks (in 1954 as defined in ISEN 60529;1992 Spacification for Degrees of Presention Provided by Haclosares (IP Code)). Electrical equipments less than IP54 should each he provided with an easily accessible and identified means of double pale isolation outside the space, with a fixed flammable gas defector/detectors fixed in the compartment and comparing along features on the navigating heidge and observings in the accommodation in necondance with F4H.3.44.2. Where any of these requirements are not practical, then the electrical assungements should be installed to a suitably confided standard in flampmon, increasically safe etc.

18A.03 Attachments

The following documents are attached and considered part of this specification:

- AC One Line Diagram (Prelimitory)
- DC One Line Diagram (preliminary)
- Main AC Swittinboard, Physical Dimensions (Preliminary)
- Mais DC Switteldoard, Physical Dimensions (Peebsonizty).

10B ENERGY SYSTEMS, AC

[64,01 General

The electrical system control and operating genels will be of yacht quality, ergonomically designed and with even friendly homeon interfaces. Consideration will be given to water entry avoidance, corresion resistance and operation in a high humbday conventment.

100.02 Main AC Switchboard (MACS)

The MACS will be designed and supplied by Atlas Marine Systems.

The MACS will be located in the part engine room and will have all necessary councils, motorized and protective devices to control the operation of electrical generators, motorized circuit breakers etc. The following features will be provided:

- Automated and manual starting and stopposts of generators based on load requirements.
- Automatic and manual generator panelleling.
- Searches transfer of power from shore to generator, and generator to generator.
- Operation in single bus or split has mades.
- Full nætering per agency requirements.
- Synchroscope
- Ground current sunct
- Automore locd shedding.
- Companication link to vessels alumn/menitoring system for rentite monitoring and control
 of electrical system operation and switchboard functions.
- Connection points and viteral protection for load circults.
- Pluted copper line, neutral and ground buses.

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18B.02.03 ____Main AC Switchhours (MACS)

Manufacturer: Atlas Marine Systems

Model: "TP-MACS-1,408-6.3.)7882083314-3,32.2-72x24.8630

Dimensions: £829 w x 529 d x 762 h
 Weigla: £59 kg (350 lbs)

108.04 AC Sub-Distribution Panels

It is plaused that one AC sub-distribution panel will be located in each waterlight encaparament to might be buildened passentians. The Builder may opt to minimize the assolute of panels depending upon the assolute of panels depending upon the assolute of distribution riscuits required.

The AC sub-itisatibution panels in nun-technical spaces will be installed in a manner that hides the enchange from their feet with paints. Work).

Pippe that the circuit manifers reflect live conjections. I.R., a I phase signif breaker requises I cheepes in the planet, whereas a single phase electif requires one panel circuit.

Preliminary substitistribution parets for AC citatits are as follows:

	1.ggstion	Conguits	<u> Çirmit Ampa</u>
1	Port engine rooms	139	TED
2	Stad cogging reggs	mo	ABD
3	Port half, aff	TRD	TEO
4	Past hell fold	380	BBD
5	Schälledi eft	TBD	GEF.
6	Şibrî Hull feed	77340	'IBD
7	Galley & Main Deck	**(T\$8)	Tab
8	Flybridge & Main Deck	TUO	*לוגנני

 ⁽⁾ will have a split ties and the busing contiduation of the normally characteristic attenuates are paralleled

10B.04.02 AC Sub-Distribution Panel Type

٠	Manufactorer:	MedioGoria, of equal
•	Model:	ម្រែធំប្រាធរ សាក្សាដ
4	Capacity:	TRD
•	Main Breskes or Swindr	Nane
•	Calde Entry	Variants
•	Calor	IBD
٠	Ye Ruting	λειτίσμος ε.Α.
٠	Hinged down	TED
٠	Branch Circuit Breakers	Mga

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100.05 Shore Power Systems

10B.05.01 Allas ShorPOWER Fraquency Convertor

A share power frequency converter will be supplied with the following features will be provided:

- The unit will deliver full output power from any farce-phase or stagle-phase blood, at any signs voltage from 180-530 Volts AC, and of any input frequency, 50/60 Hertz (assuming adequate power from share is available).
- The unit with automatically souse the incoming power characteristics and convert the
 priver to the voltage and freshoody required by the vessel.
- The output will be from time ware compat.

Magnificationer: Atlas Murino Systems

Model: SPA
 Capacity; 60 KNA

• Otaquesinas: 1676 €C v. 883 W v. 517 Cr • Weight: 459 KG (1019 lbs)

18B.05.62 Galvanic Isolators

Catvanie isolators witi be provided us per deceteical descrings:

Manufacturer: Dainyland Electric
 Model: G1-10kA-S-100-CC:

Number: Two (3)

100,03,63 Share Cubles

Shore cable features:

Quantity
 3

Uncertical Stock of each half.

Longsh TGD
 Cupacity 300Amp
 Conductors 4
 Cable real TBD

10k.06 Computer Power Squares

Exoct configuration is to be determined. Computers accessary for MCA compliance are powered from the 24VDC emergency butteries. Other computers are connected supplied by the again AC, Maga E/C hattery systems, or UPS as appropriate. Exact configuration will be determined later.

108.07 Uninterrupted Powet Source

The contrastranean system, noise sensitive and other critical leads including comparers will be supplied AC power from a 12 KVA uninterruptible power supply (NES), which provides the following features:

Continuously provides conditioned, clean, spike and noise-free AC power for sensitive
clectronic equipment and additionally provides maintenapled power upon the loss of AC
imput/power

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12.7%

- The output of the LPPS will be condiguted into two separate outputs, our critical and time non-critical.
- Upon loss of AC power, the non-visited load is disconnected from the UPS convertes
 while the critical load continues to operate on the burnery pack until AC power is restored
 or the battery system is depleted.
- The UPS is sized to accommodate the total least requirement, and the harvey pack is sized
 to accommodate the critical least endy.
- Merces are provided to menitor operation.

Proves distribution from the UPS will be via dedicated sub-distribution panels. Size and location to be descripted.

The UPS system will be designed and netrofactured by Arias Markee Systems, and consist of the following components:

- Progressy converter
- Baltery
- Enttery Charger

Pregrency converted:

Model: Allas Marine Systems
 Model: SPUL12X65111.43-BD
 Capachy: 12 kVA
 Distributions: 334 to x 944 & x 959 k
 Weight: 227 kg (500 ths)

Huttery:

Manufocturer: Attas Marine Systems
 Mosfel: BP3
 Dimensions: 760 w x 330 d x 760 h
 Weight: 163 kg (360 0bs)

Важену Сфотрет:

Manufacturer: Allas Marino Sysakus
 Model: BC3
 Dimensions: 365 w x 152 (| x 356 h
 Weight: 27 kg (60 lbs)

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10C DC SYSTEMS

10C.01 General

The one line diagram of the DC electrical system will be as specified in the Adux Marine. Systems drawing — 165192

DC Electrical system - Getaeral:

- The number DC electrical system with the a 24 VDC system with promoted negative. Circuit breakers will be 1-pole with three conductor circuits to each user: positive, negative and ground.
- Z4VDC elegatical system supplies facuse and emergency 24VIXC loads.
- 12VDC electrical system supplies layuse and emergency 12VDC loads, if required. This voltage will be provided data DC-DC converters
- Generators and Main Engines will be 24VIM, isolated ground systems.
- Battery parallel switch will be installed in the part edging errors to parallel 24V(N) batteries for eagine starting.

DC Electrical system - Class Requirements:

- Battery over-correct protection and disconnect awitches will be installed in mentenclosure; spired IP22 and in compliance with ABYC standards.
- Battery spaces are to be vestifiated to avoid accounted than of hydrogen gas generated during charging.
- Busteries are su he seemely minusted to prevent universent due to the motion of the vessel.
- Butteries are to be installed in heid-resistant trays to provent the possibility of opi05:d
 electrolyte reaching the boat structure at hitger.

10C.02 DC Distribution

16C.01.01 DC Distribution Funcis

The Main DC Switchboard will be located as specified in the part edgine morn

The DC sub-distribution panels in managerhinery agrees will be installed in a manner fast bides the englosure from direct view (behind joiner work). Panuls will have to be easily removiable.

DC distribution panels will have the following features:

- Volt and entern moters to show battery voltage and porthern DC system custosits. These
 meters will have averagent protection.
- Single pule branch circuit breakers will have weplif but and the bas to eviden will be permally
 closed when the generators are paralleled as each LHC user circuit.
- Ground and Negative buses.

Sub-distribution panels for DC circuits will be as follows:

	<u> </u>	<u>Cingrits</u>	Cissuit Arrest
1.	Main DC Switchboard in Port Engine Room	TBD	TBD
2.	Peri Sing Run 24VIIC (Sale-Distribution Proxis	TBD	212937
3.	Salon helm station 24VDC Sub-Distribution Panel	1360	2,815
4 .	Salan betm station 12VDC Sub-Distribution Panel	CART	TOD

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10C.02.02 DC Distribution Ffring

The Builder will determine if the emergency tighting and alarm system witing may be contained with the countral and aposition system wiring.

The OC distribution wiring will be limited to:

- डिल्हुबेस्ट १००० इस्लोक्ट्र कार्य २००३हरी अप्रस्कात
- Emergency fighting and starm systems
- Control and monitor systems.
- Separity systems
- Navigation instruments
- Сопитиніствінів ецпіричен
- Tailer values

10C.23 Rotteries

10C.03.01 Engine Know Start Battery Bonks

from engine room will have a sensing bastery bank consisting of two batteries in series.

Manufactures: North Star Buttory Co. (Meridian Marine)
 Type: NSB 130FT (AGM)
 Pagether: 4 total; 2 in 2 butter
 Voltage: 22 with cell

Capacity: 126AB 1500 Marine Creaking Amps

Weight: 38 kg each, LS2 kg total

Dintensions: 560 (x 1251 w x 227 h (each battery))

10C ff).02 24 Voti House / Emergency Rettery Bank

To be included in cross deck under the Saline helm station, one bank of two (2) volt cells connected in series:

 ▼ Manufacturer:
 Mastervolt

 • Type:
 MySV1280 (Gel)

 • Number:
 ¥2

Voltage; 2 volt cells
 Copsciry: 1390 stop-hours

Weight: 93 kg each; 1.164 kg total
 Dimensions: 2151 x 277 w x 688 h (each)

16t QLB 24 Valt GMDSS Radja Benetry Bank

To be logated in the Sulon industration, two 12 volt cells:

Manufacturer: Mustervoll
 Type: TBD
 Number: 2 rotal; 2 in 1 hank

Voltage: 12 voit cell
 Capacity: This grap-hours

Weight: TRU kg cach; TRD kg tond

Dimensions: TBD

<u>10094</u> CHARGING SYSTEMS.

1<u>00.04</u>61 General

- The 24VDC start bottery banks in each engine room will be charged by a 59 any AC. powered battery charger.
- Two 100-step battery changers will charge the 24VDC house/energency battery bank.
- One 50-error battery charges will charge the 14YOC GMDSS Radio battery busik.

Banery Chargers <u> 100104.02</u>

Baffery chargers will have the following features:

- Hattery chargers will be the fully automotic type.
- Plattery chargers will have internal over-current production on the DC pulput.
- Battery chargers will have voltage regulation with temperature conspensation.

Engine Room Soffers Chargers

٠	Manufactuerr	Mastervolt
•	Type:	\$\$ASS 24/50
*	Model:	40020500
•	Number:	2

180-200VAC, I please, 60 Hz. Voltage pristary:

Voitage secondary: 26.5-28.8V DC

Disal autoral Yes:

343 bx 262 wx 120 d Dimensions:

5 kg Weight

24 PBC Houseillmergeney Buttery Charget 10(104,04 ___

B' postuired, to be located in the Salan belon stuffing

Mare factorer: Masservolt MASS 24/189 Type: 40021009 Model;

Number

Voltage primary: ING-200VAC, I phase, 60 Hz

26.8-28.8V DC Voltage secondary: 422 Jan 318 win 150 di Dimensions:

Weight: 9.1 kg

10<u>C/04.05</u> 24 Yolt GMDSS Radje Battery Charger

To be incuted in the Salan halocatation:

Maggervolt Manufacturer: MASS 24/25 Турс: Model: 40020850 5

Νυμφα:

GEMINI Project Contrast Specifications

Van Peingligste & Engriot Prévost Naval Asoluitois

Voltage primary: 180-260VAC, 3 plane, 60 Hz.

Voltage secondary: 26.5-28.8V DC

Charge current: 25 ang.
 Dual output Yes

Dimensions: 325 h x 221 w x 112 d

Weight: 2.8 kg.

IGC.05 Skernstore

Each main engine and generator will not be provided. Charging will rely upon battery charges to a means of saving weight.

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10D LIGHTING AND PLUGS

The lighting systems; will be state of the air, high quality, market littings and accessories, installed in accessories with the interior designess plans.

Lighting systems for interior congestments that use technical areas will be provided with a with controls only. Other interior and exterior lights, where indicated, will be dimemble.

"<u>Ludwig grous"</u> are considered to be the owner's suite, salous, great necommendations, including upper dock and usuin aff dock. These lighting systems will be controlled by Light Topels" systems.

1053.01 Switch Material

Bulkhead and walf soviets place materials will be as per part 13 faterias (Switches for luxury, areas.

Switch majorial for interior compartments that are crow accuminations, bridge, trackingly areas, galley, even mess and solvice areas will be appropriate to the location. The Builder will provide the Cover's Expressionaire with accept uptons for selection.

Luxur'y areas Officer areas

Manufactures: Light Touch of TRD TRD (
Light Touch of TRD (TRD)

1918/82 Plugs & Sacket Connectors

Plug and socket consectors will conguly with Class Rules.

The number will be sufficient to provide for service areas, ensemblement and personal use. The plays will be as specified in the fact 13 fateries Conveyes. Guidelines as follows:

- Back herdt will bave one pfig.
- Buth dock will leave a minimum of two things and a CAY 5 ping for the companion network.
- Rack buildwad will have a plug for every 4 as its buildhood length.
- A drawer or lacker at the submit average in a station will be provided with a minimum of the plage to charge region and other small equipment.
- Plays located in wet locations, such as heads, galley, ongine mores, upder compartment
 and producted deck heads homitous are to be ground flush producted and will be provided
 with moisture proof or watertight covers in accordance with regulatory requirements.

Manufactorer: 1780
 Model: 180

Note that there may be floor plags in the salars. These use to be flood managed planes with covers. To be selected by the Huikler.

1811.01 Increar Lighting

Interior lighting is to be specified by the interior designer as laid out to the plans.

All fighting listed below is 120 VAC, 60 cycle with exceptions as noted.

Note that there may be some additional lamps required in the final design.

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Buth sizes are to be determined later by the Interior Designer. All lights are to be rated for the environment that they are in; e.g., groising proof, waterlight, explosing proof.

For night vision, individual longer, or humps with dual limits are to be fitted in appropriate locations of the vessel. The total numbers of locations are to be determined. The probable list of mess is as follows:

- Fty bridge
- Navigation station
- Exterior stanways
- Aft main desk
- Salon
- _ listerior state=ways
- All forest stack presagestrays and service areas.

The following injerior lighting is affered for budgetary purposes:

10D.03.(t) Interior Lights

Particular afternion should be paid to ensure that betternous and the galley are brightly lit.
The injector high list is an follows:

100.03.91.01 Main selan

The paris sales, will be provided soilb 20 down lights on 4 circuits.

The buy will be growided with under counter lights (TDD):

The navigation station lighting will be appropriate for night use. Lighting is TSD,

ladinger lighting will be promided in calling recesses and at those bord mater the law, fixed side familyes and cabinets.

30D.D3.91,02 Enterminment Lounge (TV area)

The entertainment lungge with the provided with 8 down fights on 1 count,

lindirect lighting will be provided by celling secusoes and at their level water tixed side formings and cabinets.

10D AJ-01.03 Forward Passageway & Extry States

The factored passageway will be provided with 6 down lights on 1 circuit,

Indirect in Fluor level lighting will be provided at fluor level under fixed side l'unitaire and cabinets.

Stairs will be threat with indiscent lighting for each stair with an overhead landing spea dawn. Light

18D.03.01,84 Forward Owner Sulto & VIP Cabin

All lighting circuits will be on dimmer control citatits.

Each cobin will be growided with 12 down lights. Circuits will be:

- At entry done, dom to deak and closet (4 lights).
- At host area (4 lights)
- Bathanone (2 down lights plus mirror column lights)
- Shower (1 light).
- Todet (f light)

In addition such closet will have internal lights working from a dater activated switch.

Each bed will have 3 rending fights.

Dudirest or floor level lighting will be provided at floor level under tixed side furnisher and eabiets.

19D.63.95 Jb. Pagi Ebili Chest Cabiga

All lighting discusts will be on dinamer control eigetitts.

Each cabin will be pervised with down fights and indirect lighting. Citesias will be:

- At earry door and Spor area, (6 lights)
- At field great (2 residing fights)
- Indirect cuiling and floor level lights
- Bathroun (2 fights plus minus column lights)
- Shower (1 light):
- Toifer (1 light).

In addition each closet will have internal lights working from a door activated switch.

lighteet or floor level lighting will be provided at (less level under fixed side faculture and cabbets.

1919.03.01.06 Craw Accommodation Cobins

Aff lighting circuits will be on distance control circuits.

Earth of the few cabins will be provided with drops lights. Circuits will be:

- At entry those and floor area: Chipt: 5 lights; after erew; 4 lights.
- Reading lights at hed area (fight each berth position).
- Indirect floor and celling lights
- Buttercont (1 light)
- Shower (Usight)
- Roilet († light)

in addition, each closes will have interest lights weeking from a door activated switch.

19D.03.02 Technical Areas

100.03.02.01 Cray Ment & Laundry

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All lighting circuits will be on dinuncy control circuits.

Crow mans will be provided with (\$) down lights. There will also be provision for night lighting. Indirect or floor level lighting will be provided at floor level under fixed side furniture and cabinets.

The laundry will be provided with (4) down highla.

1013.03,07.02 Galley

Galley lighting will be provided with multiple cisenits for night and day use.

•	Circuits:	2 x overhead; I under counter; I x indirect
•	Manufacturer:	धना
٠	Model:	TRO
٠	Ratecl:	'îbij
4	Hlumination:	T'81)
٠	Power:	126/69
•	Dismentinopa:	TOO

100).03.02.03 Tender Communicated. Part & 5thd Laturety:

The tender comparisonal and locateties will contain point and/or tentery systems well require appropriate wrest fixeeres.

*	Number	2 for port lazarette
		2 for stild loggrette
		2 or 4 for tender compactneent
•	Manuforturer:	Aqua Signet, or equal
•	Modeli	TBE
•	विज्ञां (चर्च:	HR:co
•	flluminstion:	1740
٠	Power:	120/60
•	Dineggious:	URD
	Meight:	TBI)

18D.03.02.04 Eaging Rooms

Each engine room will contain six (6) fluorescent light fixtures, one (1) of which will be a selfcontained emergency light. In addition, there will be a hilge light provided forward and aft of de cogine.

Princery lighting:

٠	Number:	5 ққт соларастқай
•	និមីនរាជនិសិម័ររប េ ប	Aqua Signal, or equal
•	Model:	1044405200
•	Kated:	IP 67
•	Humanation:	2 x 40 wait element

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GEMINI Project Consider Specifications

Van Peleghoin & Lauriot Piévost Naval Architects

Power: £20/60

Dimensions: 1340 x 192 w x 109 d

Weight: 6.6 kg each

Henorgoncy lighting:

Number: I per compariment
 Manufacturer: Aqua Signat, or equal

• Model: 0248406000

Rated;
 Eac

Mingigation: 2 x 40 wate alument

Pawer: 120/60

Dimensions: 1400 x 230 w x 163 d

Weight: 14 kg cach

100,03.02.05 Refrigerand Room

The well-sin refrigerator will be lighted. The switch will be located outside the does and have an "out" indicator:

Pomber: Last consparence.

Manufactures: TBD, or Aque Signal, or equal

36ndes: 1044403200

Rated: 31-67

Weargination: 1 x 115 ward oferment

• Power 126/60

Dimonsions: 1740 x 192 w x 109 d

Weight: 6.6 kg

10D.03.02.06 Other frens

Additional highway will be provided for the following spaces. The highling will be incandescent halbs, installed in protective enclosures rated as required by the Rubes.

- Imageper death technical press (1) (at caption reals).
- Sail Inches

10D.04 MAVIGATION LIGHTING

Navigation lighting will be in accordance with COLREGS 1972 for sailing yachts (29 <50 meters. All movingation lighting is to comply with the approval of the Hay Administration. The lighting will be arranged with proper panel display and alarms as required by the Rules.

The following light models are selected from the AquaSignal 2002-2993 catalogue but are not interested to restrict the Builder to this manufacturer.

Navigation fights to be controlled from the MIMIC panel at inside navigation section. (anchor, section, where,

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1411.54.01 Running Lechts

All primary equaing lights with he deaf large fixners if required:

•	Afternal languages:	Aqua Signat 70M series
•	Pag(side	3584205
٠	Stod side	3383405
•	Sleaming	3581005
٠	Steen	3562705
•	Ratest:	IP 56; IMO
•	Power:	2 x 65 Watt; \$20/66
٠	Oggenskou:	550 ft x 220 sq base

JBD.04.02 Anchor Light

The anchor light will be single fixure isno. The forward anchor light will moved on the forward beam street.

•	Manufasturer:	Aqıza Signal, or oqual
•	Mexfel:	3079705
•	Niverbos:	ι
٠	Rated:	IP \$6; IM61
٠	\$forwer:	65 wates; 130/60
•	Disagnatoria:	329 h s 229 sq base

10D.04.03 Main Most Lighes

in addition, the vested will be provided the following 200° lights mounted on the main uses.

٠	Mappiausorer:	Agus Signat, or equal	
•	Masthead top	397 garáta	red
•	Mast side lights at top	307 serákx	green, thousted with 2 at vertical separation to matthest yet.
•	Rated;	#P 56; \$MO	•
•	Power:	65 wetts; 120/60	
٠	Dinseasions:	320 h x 220 55 (vase	

19D.05 EXTERIOR LIGHTING

10D.05.01 General Deck Lighting

The following deck lighting will be provided. The Builder wift previde light specifications for the approval of the owner's representative.

- Sufery and coursely highly, as required by the Roles, at all exterior states, massons steps, forward encigit and entries, including: upper deel; states and port/sthd off main deek states to interior.
- White lights in all forward cockple storage and ground tackle tookers

JED. 85. 82 Main agos oft

The aft main deck overhead will have flush mounted lights and indirect lighting in the ceiling recess and under floor furniture, controlled by the Light Touch system. The final arrangement is to be determined by the Architect.

Down Lights

Number; 25
 Circuits: 4

Mantifacturer: Underwages Lights, or equal.

MR16 Rutuk IP 65

Power
 50 wart; £20/60

Reflecter: Angle to be determined (10°,20°,30° in 40°)

Dimensions: ____bezel; _entr caleut; _men deprin

fedirect Lights:

• 1BD

1013.05.03 Upper Deck

The upper deck lighting will be connuted in the awaing feature for deck illumination. The following is provided for budget purposes:

Number: 20 white down lights

(Cinopéta)

Maiadachirer. Underwater Lights, or court

Modium cychol)

Rated; IP 65

Power: ____wint; 115/60

18D.85.84 Dock Flood Lights

Deck flood lights will be requested under the main most antenna supports to Bhonisone the fore deck seen and off upper deck.

Sast circuits: Port bow

Sthd bow Port upper deck Sthd apper deck

Number: 4
 Circuits: 4

Monufacturer: Lights, or equal.

Model: \$130k1-128V Pay 30

10D.05.05 Mast Flood Lights

Main deck installed flood lights will illuminate the main most. These will be welded abuninups insects in the main deck as per the drawings.

* Nitraber: 4
* Circuits: 1

Manufacturer: Underwater Lights

Model; PAR 30 Adjustable Flood Light

Rated: 0+68

Power: 150 watt; 120/60; sected bulide lamp remote dimensible
 Reflector: 99 mm dist; angle to be determined (5°,8°,25° ex45°)

Glass: 15 sam (for weather deck area)

Dimensions: 244 w x 735 d x 205 le

10D,05.06 Controllable Spot Lights

Remote controllable spotlights will be provided with deal operation stations. One light will be intended for post side use from the post flybridge bette with resome operation to the heside helm. The other highs will be intended for add side use from the side flybridge below with remote operation to the inside helm.

The controllable spotlights will provide for full 360° coverage with medimens overlap possible.

Number: 2 (or a single sight)
 Circuitis: Independent

Manufacturer: The Cartiste & Finch Co.

Model: XYPEDERRE
 Powet: 2PS120; 120 VAC
 Distensions: 386 Lx 324 w x 333 h

Weight: 12 kg
 Master cantrol: 2 x C4-2-1
 Shave control: 2 x C4-234-1

100.05.07 Docking Lighter

Lighting will be provided in the aft upper deck for night operations with the leader and dacking. Lighting will be flush mounted to the holf using welfer aluminum inserts as per the drawings.

Number: 7
 Circuits: 1

Mounfacturer: Underweter Lights

Model: PAR 30 Adjustable Flood Light

Rated: EP 68

Power: 150 wat; £20/60; metal balide remote dimensible

Reflector: 99 mm dia; 45° anjde

Olass: 15 mm

Disnensions: 264 w x 135 d x 205 h

Weight 3 kg

GEMINE Project Contract Specifications

Van Petegbom & Laurier Prévost Naval Architects

10D.05.08 Undergater Lights

Underwater lights will be provided, both for safety and visual effect. The lighting will be welled in linears below the waterline with the following circuits:

Circuits:

8 lights inboard halls between 6666 and 8668)

\$6 lights outboard halfs between 0000 ared 18000

I lights imbused at 34000 (anchoring) 2 hights inhount at 38000 (anchoring)

Number: 36
 Gienrite: 4

MausBucker: {!ndcrwyrer Lights

Model: G006.-230 (models vary for projection angles)

Ratest: Type approval for underwater use.

Powee: §50 wart; 128/60

Reflector: 780
 Dimensions: 790

Weight: 7.5 kg body fotor: 2 kg ballast

10D.06 EMERGENCY LIGHTING

Sourgency lighting will meet the pospitements of Roles. The Builder will work with the Astronomics for the required safety lights on the interior light. The exact number and type are to be confirmed by the Builder.

Astroymeys, internal and external stainways and exits giving across to and including the moster and enductation stations station stations should be adequately lighted.

Additionally, each capin and unclosed occupied space will be provided unit one floor light.

Adequate lighting is to be provided in the vicinity of staying each and the forestide area in way of the launching position(s). The highest stall be supplied from the energency source of power.

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Van Pejegbern & Lauriot Prévest Naval Architects

10E CATHODIC & LIGHTNING PROTECTION

10E.01 Cathodic Protection

An active or impressed current calleddic projection system by Catholog Ltd will be provided. The half providers and system alarms will be displayed on the vessel mentioning system. The faither will install the system is accordance with the suppliers' requirements.

In addition, a Sea Water Pipework spriftedling system will be provided by Catheles Ltd.

Please refer to the attached quantities and supplied deadings by Catheleo, Etd.

10E.02 Eightping Protection

A highlining protection system is presently under consultation. Final deviga is to be desentiated.

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II RECTRONIC SYSTEMS

The vetsel will be outlitted with electronics that are same of the art at the time of construction. The novigation and communication equipment are to be compliant with SOLAS and Global Maritima Distress & Selecty System (GMOSS) for A3 service and other requirements as applicable.

The electronic systems will be Owner supplied, provided by Larry Smith Electronics, (LSE) Riviera Beach, FL. The Builder will constinate engineering requirements for the electronics systems and provide support for the distallation of the electronic systems as required by LSE.

This is a pretiminary specification is subject to final engineering, revisions and updates in tertanology.

A provisional list of equipment follows for planning purposes. As contracted arrangements for both the Builder and LSE are pending, the Builder will provide a provisional findget inclusive of all support to be provided as follows:

11.01 Electronics System Support

The Builder will provide the following work for the electronic systems:

- Country all cables in accordance to schematics provided by LSE.
- Manufacture status in housings and control positions, as well as the cutting, drilling and sapping of surfaces to status electrosic equipment.
- Supply suitable power sequirements in accordance to wiring schematics provided by LSE.
- Provide for the safe stowage of all activered equipment and to provide seisable refige facilities.
- Provide oir conditioning to the electronic cabinets.

11.02 Electronic System Power Supply

The main power supply will be 115/208/1/69 VAC provered from the main electrical panel and emetgency electrical panel. The accordary power supply will be the 24 VDC honory bank. The DC power supply will integrate with the emergency lighting.

The Power supplies are to be stand alone cable mass, with a single how to steam our in earle hall, with cross-over times and vertical true to the wheelbound. All power users, computers, mostitors, data acquisition boxes and namels will accept and remise dual voltage supply.

11A CONTROL MONITOR, ALARM & SECURITY SYSTEMS

A Radio Zecland DMP BV vessel data acquisision and safety system capable of maniforing up to 2008 data points will be provided, to be in compliance with Class Rules and MCA tequirectants. The Builder will inadget for 850 data points. This system will another additional vessel functions not addressed in the navigation light safety and control panel and will include, but not be limited to the following:

- Steering systems
- Main engine systems including pirch control
- Generator and electrical systems.
- Thruster operations
- Bilgo mal fixe pump systems
- Fuel systems:
- Peesh water systems

, · 25

- Hydraulic systems
- Promantic systems
- Lube oil systems
- Waste treatment systems
- Retrigeration systems.
- HVAC systems
- Entry points & baselies as required.
- MIMIC Panel fusction
- Riggisty loads and saiding data (estimated 59 days points).

The data acquisition system is operated over a local area network with workstations at the salou inside helm station, fly bridge belon stations, engine mones, Captain's cabin, and Engineer's cabin. This actwork is to be fully collegend and can be operated from any one of the multiple computers should there be a failure.

The line detection and alarm system is in comply with Class requirements and AlCA Part 14. Fire Protection and as specified in part 675.01 of this specification.

The monitor, control and slam systems should meet Class Rules, MCA requirements and the standards of SOLAS regulations II-V Part Fr. and additional requirements for periodically anattenties machinery spaces (when appropriate), so for at it is reasonable and practicable to do so.

11.4.01 Canarol & Monitor System

Provisional Control & Monitor System Camipmens list is:

13.4.02 Control & Mondon Systems

A computer network system will be provided by LSE.

Part	Stodel	Number
Radio Zeeland Brainbox 5000 Computer	RA12-BRAIN-5000	31
Network	<u> </u>	
D-Link Marina WIFI Receives	DWL-6510	ξ.L
Freeman Bird 2.4 Gig WIFI Automa	FRE-2.4.ANT	î L
LSE 3COM 197100 24 Port Switch	LSE-3COM	l .
Atlantic Meduby में Watt Plate	MODERATES	<u>'</u>

11A.03 Security Systems

Provisional Security System Equipment list provided by USEs.

Part	Medel	Number
Phoasonic Outdoor Unifixed PTZ Cameza	PANWVCW864A	1 (
Panasunic UnitizedW/PresetsCodor Cumeru	PANWVCS85#B	7
Block Camera Housing	EX409-DC-KW	1 2
Panasonic VandalResistantMittiDom Camera	PÄNWYCW474S	1 2 j
Panasonic WISX150A 16x4 Matrix Switcher	PAN-WISK156A	E
Panasonic PS Data System Controller	PANWYCU650	t i
Panosonic Hand Drive/16 Channel 320001	PANWHILLIBRID	
(nto)dage	<u> </u>	ξ{
Altronix il Camera Power Supply	ALTV1234-1	1

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1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Crestron Professional Dual Bus Cital System	CRE-PRO2	į E
Crestron Single Part 19/100 Control Card	CRE-CZENET-4	- E
Creaton 16 Button Custom Panel Interface	CRE-CNP1-16	2
Costron Touchpanel Control System	CRECTPS-4500EVB	. [2
Crestion Back Box	BB-\$000	2
Crestron TES-VIII)-1 PCB Card	CRETES-VIDE	} 2
Crestron Sys 6.4" Touchpanel	CRR-TPS-30001.	[7
Creston BR-30601, Back Box	HB-3080E	2
Crestran Color Fouch Wall Mounted	CRE-CTHOO	2
KnuchPanel	l	L
Creating Back Box CD/DD/060 With Monig	BB-1000A.	3
Crestron Conoccius, Diock	CRE-CNTRLOUX	1.1
Crestron CNPWS-75 Power Supply	CRE-CNPWS-75] }

ENTRY/EXIT CONTROL	
Weigand ()SR Convertes	WIE-CIEM-WSZUSB-V2 { 2
ProxPoms Phes RIIR-\$0050 Reacter	PRO-RUR-6005B 2
Proxidey II BDG-1346 Card	PRO-BDG-1346 20

PAGING SYSTEM		[
Visiplex VS40 2W Digital Transmitter	VES-VS40	2
Vinigher Alphenemeric Pager	VOS-VIV-2	(30)

DECK SENSORSMOOR CONTACTS		
Suse Action SU-111 Zone Processor	5 SBR-SC-111	[i2
Sute Action SU-ENHY Stress Senser	SUR-SUFFINITE	46
Alaconia 8 Comers Power Supply	ALTV1224-1]
Mona Cuntage Specimics	TRANSPORTERIA CHARGERATE	19

Part	Model	Ng:
THERMAL IMAGING CAMERA		
Night Vision NightNav 3000) Contera	NVT-NN30001	

11A.03.01 Security Safes

The Builder will supply and install the following rafes. Final locations within the interior design are to be determined. As follows:

Note: Electronic safes to have key over-eide.

Owier's suite: I Japtop aized digital code

VIP: I tapuap sized digital code
 Fort Charles him.
 I the table size of city leads Charles

Each Guest cabin: I "hotel" gize digital code (I mult)
 Captain's cabin: I laptop gized digital code

For each crew:
 Protein age of the first digital conic (6 total)

Salen Ship Sales: 1 cumbination safe

ring actes: 1 digital safe

11 A.04 Flee Delegting and Alasm Syngan

The Builder will consider the installation of the fire describer and ulurar system sensors with the control and resolitoring system.

11B RAVIGATION AND COMMUNICATION SYSTEMS

A provisional list of equipment follows for planning purposes. As contractual natangements for both the Builder and LSE are possing, the Builder wift provide a provisional budget inclusive of all support to be provided as follows:

[18.01 Sailing Instructoris

SPGED/DEPTH/WIND: to be 12 VDC from voltage convertor:

Document 1-3

Part	Madel	No:
R & G Hydra 2000 Chuese Pack	BG-HY-SYST-1	12
B & G Type 213 W/80 Cbl, I-Box Masthead binit	acat030000	2
B & G 36M Mast Vertical MHO Cable	13/03/10/30/06	12
B & G RY 2000 Pult Function Display	BG-HY-FFD-PK	[]
B & G 360 Deg Wind Angle Display	BG2154401016	3
B & G HY3020 Red Display Pack W/Switch	HG-HY2020RED28	िव
& & G Als Temperature Sersus	BG-224-00-866	1
El & G Boyumetric Pressure Servey:	86769090007	1
B & G Sex Temperature Probe System	BC)-224-00-065	
B & G Bronze FlushMt Depth Transducer	SES-DOT-HMF	2
B & G Branze FlashMt Speed Transducer	SEN-SPD-HMF]]
LSE Remote Transducer Switch	ESE-XDCRSWITCH	·]]

11B.04.02 Radar and Navigation Egydpment

Part	Model	No:
RADAR		
Foreign 2127 Black Box W/4' Array Rudar	PUR-FAR2127BB/4	2
Furum Gyra laterface Board	GC-19	
Funno 21x7 Rudar Remote Trackfed! Control	RCU816	4
Churtpletter		<u></u>
Itadio Zeeland Brainbox 5000	1C25)Q1639/24	<u> </u>
Transus NS3000 BCS Champlotting Software	TRA-NS3000	1
Transac Westel Collection Coles Ventes	TRA-3000	1 1
Transus AIS NS3000 Transporter forerisce	TR-31-SW6-18	1
Transas Radar Integrator Beard	TR-N-HWO-01	
Valhulin Flexible Grey Waterproof Keyboani	VELFWK	7
Vulhalla 100 Wireless USB Blk Keylseard	VEI-WRFKYBD	
Valhalla 100 Wireless RF Mouse	VEI-WRFM	1
DJS Cat 5 Strpd/Shielded Cable		\$ 100,
Valhalla Kvm CAT5 Extender	KVM-EXT	
GPS		
Leica MX#20-\$ 8 part DGPS	LEDAX426/811	7
Shakespeare 4" High 1"-14 Thad SS Mount	SH-4365	7

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ALS		ì l
Leica MX531 AIS+DGPS W/Navigation System	LEI-MX531/MAV	<u> </u>
Lyica AIS Software License	L.CJ-70460	
Shakespeare 4" High 1"-14 Tard SS Mount	SR-4365	
		{
Monitors		
Valhalla 15" 1500mitVGA Surdite Monitor	VEI-15/1500	4
Vidletta 187 650mi Daylight VGA Monitor	VEI-18/650	
LSE Custom Vga Switching System	LSE-1825	} !
		<u>{</u>
SONAR		1
Sinuad St.36 Block Boy, Dual Pod Sonor	SIM-SL300	1 2
Sixuad 30M SE39 Cable	4360137(1000	[d)d

11B.03.03 Autopilot and Gyra Computs System

Fart	Model	{ No:
GYROCOMPASS		
Auschutz Standard 22 G/OM Gyrocongues	ANSMBSTZ213	{
Auseitutz Analog Steering Repeater	ANSMAST2020	3913
AIFFORULOT	- 	
Arachetz PilotstarD Digital Amopiter	ANSMBST1950]
Amechnitz Piloteenei) Soccost Stan Autopilot	AMSMUST1954]
Asselants Rudder Angle, 1923 Indicator	ANSMAST162?	1
Anschutz Radder Augic Indicator Amphibes	ANSMBS11632	1
Anschutz Follow Up W/Take Over Tiller	ANSMBST1957	1
Aneshetz 2 Pos Change Over Switch	AN\$49999120	1
Attachuta Change Over Retay	A3V\$4989910	l
Austhutz Override Tilles Sysiem	ANSMUSE2001	î l
Ansolutz Follow Up W/Fake Over Titler	ANSMBST1957	
Assebista Rudder Angle (P66 Indicator	ANSMBST1649	{ 2
Anschutz 19568) It A (ALOY) Dictoryey	ANSMBSTEL19	<u>;</u> 2

HB.01.04 Compasses

Parl	{ (Fi odef	No:	ţ
Sinstad Magnetic Cosmpast	Apr135 6"	1	į
	1	1 .	Ł

11B.02 COMMUNICATIONS

Part	Madel	No
GMDSS A3		
Finuau GMDSS Console System	FUR-RC1815	<u> </u>
Puranu VIII Remote Conitol Unit	FER-RB700	1
Furano RB700 Connector Kis	0000138998	1
Furano FAXS Active Automa Couples	FUR-FAX5	1
Controd 8' 6db VHF Artistada	AV60P8	4
Procom Finnge 1" Deck Antenna Mount	FLG	<u>[</u>

Commod 23° 2 Piece SSB Auteurs	A1731823-2	[2
Stakespeare Swivel kit 81-8 Mm & 408 Upr	SH-4 (4)	2
Antenna Monata		
Furum Felcom 15 SSAS Upgrade	88AS/FIS	1
	T	
VEIR]	
Standard Quastum Black DSC/VIIF Rudio	STA-GX2369S	i
Councel & Gilb VHF Antenna	AVGUPS	<u> </u>
Ременя Рапус Г" Роск Авзелла Моны	FEAT	2
HANDHELD VHE'S		-
Standard HX460S Plack 5W WH VHC	\$0'A-HX-660\$B	Ę 6i
Manufact Master Girrger 6 Gang Charger	MCG/FEX460S	<u> </u>
Low 2WGMDSS Submersible HH VIII	ICO-GM1500	<u></u>
NAVIEX		
Furning NX 500 GMDSS IMO Navtex Received	FURINXSON	
Pucton NX5 Active Antenna Complex	F(IR-NXS	
Figure NXS00 External Data Connector	004511790	
Courted Whip Asterna	AR88/108M	į į
Shakespeare 4" Fligh 1"-14 Thed SS Mount	SH-4365	
SATCOM		
Nora Plees 77 laurersat B System	NEH-1777	
Nem Tempical Adapter	NER-TA	
Valhalla (SON Flace 55/77 Modern	VEI-ISDN/M	Į.
Nera F33 Satellite Construenteations System	NEW-P33	į
New F33 Fernical Adupter Kit	NEH-WC-YA	
G.P.I.R.P.		
Nor Amburger \$1520 Softing 406Mar Civitals	NAT-S1520	
S.A.R.T.		
Nor.Aidume 9GHz Portable (IMDSS SART	NAT-9420	
SATELLITE TELEVISION		
Orbit AL7203 86CM SalefiteTV Antenna	ORIS-AL7203	
Orbit American DBS LNRF Kis	[B4M34-4-1	7
Orbil Europeats Kit	EURO-KIT	7.
Orbit Remore Control Via Medicas Kit	ORB-RCVM	~

11B.03 Telephone System

Part	Model	No:
TELEPHONE SYSTEM		
Punasonie KXTOA200 HybridfP (x (92	PAN KATIM200	,/
Engicl ⁴ HX System		
Panasonic L. Type Power Supply	KXTDA0103	1
Parasonic 16 Part Analogue Line Card	KXT(0A018)	1)
Panasonic Option Card	KXTDA0190	
Puntsonic Remote Maintenance Card	KXT19A0196	- [[]
Panagonic & Port Dightal Hybrid Line Card	KX1DA0170	
Panasonic 4-Yort Dong Phone Card	KXTDA6161	1

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Pasasonic 4 Port IP Card	KXTDA0484	<b>1</b>
Panascenir K.X I 7453() igl ) isp24BistaBf Spk#	PANKX174538	
Phone	L	l
Panasouse KXT74ZSDig Z4BustonBik Sekr	PANKX37425B	9
Phene	<u>]</u>	
Panasque: 900 ahg24 afrit incCordes Telephone	PAN-KX17885	2
Okidata Microtine 1847 Scrial Impact Printer	OKI-MI.184T-S	
UPS	HOTSU700NET HOT	<u> </u>
	SU700NET 700V/450W	Į.
CELLULAR TELEPHONE		
Telular SX5c GSM 850/1900 Cellisfer plione	TEL-SXSEGMSV/E/PC	~~-FE
Control UHF/GSM Matti Frequency Antenna	AC15P	<del>}</del> [
Process Plunge 1" Deck Antenna Mount	FLG	
	Τ	[
ENGINE ROOM PHONE		~~~[]-!!
LSE Cardless E/R Phone W/Heathet	LEE-CERPS	- 2
Amesco SRN Blue Strobe Light	ASSSSSISLED	-ţ <u>-</u>
High Outpett Loud Ranger	196-4/ Alica	72

# HC ENTERTAINMENT SYSTEMS

A provisional fist of entertainment equipment is as follows:

# 11C. #1 Main AV Distribution System

Part	Madel	No:
Kaleidesenge Base System	KAL-KRASESYS	
Kaleideseage (Set For Region 6) DVD Reader	KAL-KREADER-ZDDD	l .
Kalcidescope Mosje Player	KAL-KPLAYER-2000	7
Direct TV HD Traner	D08-13D	3
Exizm DAG YUV A Distribution Amp	(45-494-0)	7
Extron Conquisite A/V Distribution Ausp	(6)-692-31	3
Audio Regisest F Series 200 Pro 3 Zame Music	AUD-PSERIES-200	13
Server		_L
Extron MDA SA RCA Distribution Aust	60-441-01	2
Crestron Video Sensor Module Multiswitch	CRESTVS	3
Middle Atlantic Ruck Allowance	MID-RACK-B	
Speaker Craft CRS 8 Two Speaker Pair	SPE-ARM86820	72
MH Quart 6.5" Marine Speaker Pais	MBQ-NKD116	7 2
Crestron ColorTone's Well Mounted	CRE401000	
[ Touchfanel	<u> </u>	.
Causizian Hack Box CT/LC1600 Wall Mount	BB-1000L	
Crostron I-Way Remote RF Received	CRE-CORFGWA	
Crestren Waterproof Handheld Remote	CRE-WFR-48	j

# 11C.02 Flybridge Systems

· l'art	Martel	No:
Clarion AM/FM/CD/ Controller	CLA-XMD3-RET	1
	M301RC-RET	ī
Clurion 24° Extension Coble	MIGIRAC-RET	l
MII Quart 6.5" Marine Speaker Pair	MBQ-NKD116	4

**GRMINI Project Contact Specifications** 

1	NOTINE			
	MB Quart 10" Marine Subweofer	NW1)254	. 7	ı
	Clarion 320W 4/3/2-Channel Power Applifier	CLA-APX480M	3	
	Crestron ColorTinich Wall Mounted	CRE-CT1900	ī .	
1	Toughifacet	<u></u>		į
į	Crestron Back Box CTA C1000 Wall Mouse	513-10GGL	] ;	

# 11C-03 Main Salon Systems

f'art	Mode) No:	]
Sphakes Craft CRS & Two Speaker Paid	SPE-A3M86826 3	
B&K Stereo Amplifier	BK-81125.2 1	_
Crestron 7-Way Wireless Touclapanel	CRE-STX-(700C   1	
Cression Cresnet Volume Control Module	CRE-C2N-VEQ4	~ 1

# LLC.04 TV Room Systems

Part	Model	No:
NEC 61" Plasma Display	NECTY-61XR3A	
NEC Wall Mount Bracker	FWMK.	
Snay () VP-NS575 DVD Player	\$50N-DVP-NS\$75	
B&R Antio/Video Receiver	PK-AVR505	
B&K (2-Charmel Power Amplifter	BK-AV1260	
B&K 6-Channel Power Amplifier	9K-AVZ600	
Speaker Craft AIMS Five Instituted Speaker	SPE-ASM93875-1	5
M&R Sound 8" White Enhanging	MK8-MX700	
Crestren 2-Way Wireless Touchpagel	GRE-SUX-1700C	{
Urestma Professional Doal Bus Cirl System	CRE-PRO2	
Cresiren Single Port 19/100 Control Card	CRE-C2ENET-1	
Cremeso Cremet Valume Council Module	CRE-C2N-VEQ4	
Crestron Connecting Bines	CRE-CNTBLOCK	
Cresting CNPWS-75 Power Supply	CRECMPWS-75	
Crastrop Bi-Directional RF Gateway	CRE-STREGWX	
Crestron 3 Part RS-23.7/422/485 Control Card	CRE-C2COM-3	2
Linksys 8-Port 19/100 Ethernet Flub	1.551-169898	
1.SE interestived Package	t ASE-JCP-S	

# 11C.05 Oppge & VIPEalte Systems

The owner softward VIP saids will each have identical systems as follow:

Part	Model	No each:
NEC 41 Planua Display	NEC-PX-42XM2A/S	- 1
NEC Walt Mount Bruckst	FWMK	
Samsung SV-7000W Workleide Multi-System	\$AM-5V7000W	ī
Convertor VCR		
B&K Audio/Video Receiver	DK-AVR505	E
Speaker Craft AIM 8 Two Individual Speaker	SPE-ASM93\$72-1	5
M&K Sound K9 Powered Subweeder	MKS-K9	
Crestron 2-Way Wireless Touchpured	CRE-STX-170XC	
Cression Bi-Directional RF Quieway	CRESTREGWX	
Crestrup MP26 Control Processor	CROS-MC28	L
LSE Interconnect Package	1.SE-JCP-Ft	

FORWARD SUNDECK		
Mills Quart 6.5" Marine Speaker Pair	MBQ-NKD116	]2
Crestron 6-Button Decorator Keypad	CRE-C2N-DB6W	] [ ]

# 11C.06 Great Cabins Septema

The Bires (3) giest cabias will each have identical systems as follow:

Part	Stodet	Nut
NEC-Masubishi 30° LCD Display	NEC-LCD3000sBK	
Premier CTM-VESA Wall Bracket	PRE-CTM-VESA	[ [
Samaing 100-240V 50/60 Hz SV5000W VCR	SAM-SV5000W	ī
Batton SW 4AV Video Switcher	60-484-21	ī
IVC Code Prec Haras Threater	PVC-D8-FP882	T I
Speaker Craft CRS One In-Ceiling Speaker Pair	SPE-ASM86610	I
Crestron Ri-Directional RF Cotowsy	CKE-STEFOWX	] 1
Caestrola MP2E Control Processor	CRE-MP26	
LSB Intermanect Package	1.8E-ICP-B	1
*Note: Ophonal Cruston \$1'X-1'99C		
2-Way Whatese Touckpanel	<b>§</b>	

# (1C.07 Galley Systems

Pare	Minufel	Na:
LG 23" LCO Display	EG-I.2323T	<b>1</b>
Protester Mosints Flat Wall Moont	PRESPRE	1 1
Samsong SV-5000W Worldwide Multi-System	SAM-SV5000W	5 3
Convertes VOR	F	
Speaker Craft CRS Two Speaket Pair	SPE-ASMR6630	2
Kenteen 903 Mini-Ayephilien	KRA-203	<u> </u>

# 11C.08 Craw Mess Systems

Pert	Model	No:
NEC-Mitsubishi 30" (C1) Display	NEC-LCD39884BK	1
Premier CTM-VESA, Wall Bracker	PRE-CTM-VESA	} 1
Samsung 100-240V 50/60 (32 SV 5000W VCR	SAM-SV5000W	[ [
Extree SW 4AV Video Switcher	(49-484-21	
JVC Code Free House Theater	JVC-DS-TP582	1
Speaker Craft CRS One In-Cooling Speaker Pair	SPE-ASM\$6610	Ī
Crestina 2-Way Wireless Tenchannel	CRE-STX-1700C	3
Crestron Bi-Directional RF Gateway	CRESTREGWX	} t
Crestean MP2C Control Processor	CRE-MP2E	11
LSE Intercempent Package	LSE-00P-8	

# 11C.09 Captuin's Stateroom Systems

Part	Model	No:
NEC-Mitsubishi 30" LCD Display	MEC-1.CD3000-BK	
Premier CTM-VESA Wall Bracket	PRE-CTM-VESA	
Extrem SW-4AV Video Switcher	60-484-21	
Samueog SV-5000W Worldwide Mutri-System	SAM-SY5606W	
Converter VCR	ł	
JVC Code Fice Home Theater	JVC-DS-12/382	
Speaker Castl CRS One In-Ceiling Speaker Pair		
Crestoon 2-Way Wireless Touchgand	CRE-STX-1789C	
Crestron Hi-Directional RF Gateway	CRE-STREGWX	
Crestron MP2E Control Processor	.CRB-MP2E	
LSE Interconnect Package	LSE-ICP-B	

# 11C.19 Crew Cabin Systems

The Bisec (3) crew outsins will each tuve identical systems as follow:

Part	Model	Net
Panasanic High-Power CD Player/Receiver	PAN-CQ-C5310U	
w/Aux Input		
Speaker Craft 6.1 IFf Individual Speaker	SPE/ASM96419-1	
LSE Cables & Hardware	LSE-CH-L	
LSB Satellike Frixtelbation System	ISP-SDSQ	
LSE CATV & FM Distribution System	LSE-CATV-B	·

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# 12 Interior Concepts

Refer to the General Arrangement drawings by the Architects and Interior Designer for the interior actually member. The efficults design team has provided renderings and descriptions for the concept.

Michael Leach Designs will be providing the design and specifications for the interior. Their work will be substitude under separate cover by the Owner.

# 12.91 General Notes

It is the intention that the interior arrangement for this sailing yacht, as illustrated in the general arrangement plan, will be fatted out in top quality yacht standards. The level of complexity is slaven in attached renderings.

No space shall be seft unused. Where reasonably possible, the Builder shall nacks at idead' spaces satisable to be used for lockers and storage areas by lining out and providing access for lase.

All interior components, liminising and decorative materials and similar items, shall be in accordance with MCA respiretuents.

Special attention shall be given for passection and covering of all camplesed, finished or entirelists surfaces during construction.

All surfaces, which may be expassed during use, such as the insides of lockers, drawing, cobinets, etc., shall match the surrounding joinery work uplies officerwise stated.

All word joints, as its frawers, are to be dashed, dovetniked or rabbeted, and glack in succonfance with the hest meriae practice or so specified by the interior designer.

The Builder is tesponsible for providing proper stowage for all Country supplied equipment as troted in part 16.92.

# 12.02 Mock-thys & Supples

Mock-ups will be specified by the interior designer and owner's representative.

## 12.03 General Notes

# 12.03.01 Point Work & Protective Continues

All paint work and protective comings are to be suitable for the usarion environment.

Colors, stairs and globs, satin or matt finishes will be selected by the Owner or his designated appresentatives.

All woods use to laive a protective coating applied. This includes all sides and edges whether exposed or hidden.

# 12.03.07 Bulkhoode

The bulkheads and paneling will be constructed of a highweight cored panel mounted on included supports as indicated in the noise and vibration drawing package. The Builder with

**GEMINI Project Contract Specifications** 

assure required strength for the panel area with consideration for meanting speakers, video success and other heavy objects,

Pinish wood applications will be with rencer application over light weight panels as determined by the Architect and soist/vibration consultant.

### 12.03.03 Callings

As per the Owner's interior designers specifications.

## 12.03.04 Floyry

As per the Owner's interior designers specifications with the following considerations:

- All floors will be floating and are to have removable sections where muchinery or system
  components require access. The Buildes will propose a batch system to be approved by the
  Owner's Representative.
- The floors in the stad hall(erest side) will be redinsed to the kick board for easy eleming.
   Desire to the gray water system, with P-traps, will be provided in the galley and faunday floor.

## 12.63.64.61 Goor and Bulkhead Tanker

Fleisking for Snorr and bulkleads will be relatively clear of knots. Plank isons will be staggered in a random pattern and lengths will be staximized.

Seams for floors and buildleads, whether haded and have led or groovest, is to be determined.

The Builder will prepare a 1 meter a 4 meter sample of finished flouring for approval by the Owner's Representatives and interior designer.

## 12.03.05 Interior Progra

As per the Owner's interior designers specifications.

Total rooms to be undercut approximately 12 into 6x vertibition.

All interior dinces to have non-maling door eateh backs.

The fire class cating for each door is contained on the Pire Insulation plan.

## 12.03.05.01 Door Hardware

As pet the Owner's interior designers specifications.

## 12.03.05.02 Door Lock Sets

Numerous doose for the interior will be provided with look sets. The total number and type are to be determined as per the Owner's interior designers specifications.

#### Note:

Statue extensor doors and some intestor doors may have remote control looks and sensors
operating in confunction with the security system.

## 12.03.06 Planding Fixtures

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The phinibing fectures are to be as per the Owner's interior designers specifications.

#### 13.04 AREA DESCRIPTIONS

The interjor sees descriptions are as put the Owner's interior designers specifications.

#### 12.05. ENGINE ROOMS AND TECHNICAL SPACE DETAILS

The execusion of the engine rooms and technical space, including fazarettes, details will be showniece finish. All equipment will be instalted to provide casy actors for maintenance, stravice and repoir. If necessary, any interference will be made removable for service and espair 2001;98.

The main engines will be undered as "Detailed" engine, having a high gloss paint, character and published exploses steel accessories. The tempinder of the equipment and communicated density will be highly detailed finishes with gloss pointed finishes and heaf blasted, polished or placed metais.

The largerenes and render comparisonals will be finished to a high level of deed. In these 3 areas, hydraulic and other tubing and intrings will be poliched stainless afred where visible. The Builder, in contdination with the Owner's Representative, will provide organized storage sholves, lockers or drawers where possible.

Other desoils to activite:

### 12.05.01 TIPATY MAINTENANCE ACCESS

STRONG-POINT ATTACHMENTS WILL BE PROVIDED IN THE ENGINE ROOM DECKHEAD FOR HOISTS OF HEAVY EQUIPMENT, BEFORE THE ENGINE ROOM SOUND AND THERMAL INSULATION IS INSTALLED. LABELED ACCESS COVERS FOR THESE STRONG POINTS WILL THEN BE INSTALLED IN THE SOUND AND THERMAL INSULATION.

There must also be sufficient space herevers the engine mounts and bilge forming, to remove the main engine and generator oil pans, for access to the countshafts,

#### <u> 12.05.02</u> Engine Room & Bilge Framing

All intersections of the engine seem transverse and longitudinal framing wift be provided with limber boles, to allow for thatmage of bilge water. Thetay limber buies should be provided in the froming from the keet, to 500 nan above the waterline.

#### 12.05.03 Engine Room Deck Grading

The engine room deck grating will be anodized aluminum plate, with a diametal pattern. These plates should be fastened to the deck grate framing with quick acting fasteners. The firsteners are to be the ¼ turn, aircraft Doot (pronounced Zons) fastener. A mibber, insulating tape should be applied to the bottom of the grates, where it contacts the deck grate framing to prevent metal-to-metal contact between the grate and frames.

The deck grate support framing should be of abundants, and of sufficient cross section to support the deek grates. The perimeter framing for the deck grates will be the same euler as the

28 April 2005 · Page 94 of 123 dark grotes. [Note: This is to prevent paint from being chipped off these frames when the grates are removed for repair/inspection.]

### 12.05.04 Englue Roops Guards & Railings

Guardunils should be positioned ground all operating equipment. These milings will be necessited to the deck grate framing with quick acting fasteners, to provide easy recoved during repairs.

Guards about the placed around all exposed rotating items such as belos, pulleys and couplings.

These guards and railings should be of a high quality material such as high polished stainfess sport. In the interest of weight, they can also be consumped of also that interest of weight, they can also be consumpted of analyzed abortions. Composites of earlier fiber/K evlus are also acceptable materials.

The railing system above rech rusin ragine will incorporate a work benefit with tool storage. Final design is to be coordinated with the Owner's Representative.

### 12.05.05 Drip Trays & Save-alts

Drip ways aband be installed, under the main engines, and generators. These absold be of a high quality material, but not high poliched stainless steel — as they are difficult to clear. Bead blasted stainless, or anadized aluminum is recommended for this application. A composite autorial can also be used. Cleaning of the drip trays will be accomplished using a small lasse attached to the oily water segment.

All pumps will be mounted on a seve-all way, with at least a 25 mm lip. These trays should have stain holes and glags. These mays one be of boad blasted stainless, anodized aluminum, or companies.

# 12.05.86 Engine Room Piping Finish

All stainless steel piping in the engine seem is to be installed with a boad blasted flaish.

Such, alloy, and house and copper alloy piping will be painted, with a high-gloss, two-part polyarediane print system. All walds on this piping will be ground float, filled and faited, before painting. Piping about prestude from throuled floatges, at least 2 dereads, but no some that 3 decade.

Gaskets should be the same disregter as the flange they are invitalled on, and shall not proteate past the chemifarence of the flangs.

Piping translets and supports should be of a high quality material, but not high polished stainless, as they are very difficult to polish. Bead blazzed stainless, or painted aluminum is more suitable. Piping wift be insulated from brackets so as to minimize vibration to the holf or morning structure.

## 12.07 Fasteners

All festences for technical equipment and their mounting will be sminless steel. Fastences include nots, butts, weathers and lock washers, and cap screws, machine screws and Allen head tooks. Some equipment (such as high-pressure air compressurs) are supplied with heat treated, aluminum alloy fasteners. These fasteners must be smodized.

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Van Petegbern & Lauriet Prévost Naval Architects

## 12.08 Lighting

There must be good lighting in all technical spaces. All lighting installed in the engine toom should be enclosed in splash proof fixtures. Lighting in the hilges should be in suterproof fixtures. Extra lighting should be provided at workheaches, and over the main switchbeard.

This lighting will be thursescent lighting above the dock; and inconfescent lighting for the bilges. It is important to avoid a mixture of many different styles/sizes of bulks, as surfage of space bulks is sometimes difficult.

#### 12.09 Manholes & Hatches

Within the engine room and technical spaces, the access trackes to all tanks will be fastened with highly polished stainless steel bohs, or with a single bolt dog. The stads for these bolts should protruste through the bolt by at least 2 threads, but no more than 3 direads. The machinis covers will be provided with bandles, for easy temporal, and they will be tabeled, in regards to which tank they service.

#### 27.10 Labels

All equipment should be identified with a label that is securely firstened to the equipment, or ment the equipment. All junction boxes, switchboards and circuit breakers will also be labeled. These labels can be engineed, polished stringers seed, or engineed thermosphastic. The aperifications already detail that all piping is to be inheled and order-coded. SOLAS regulations for label and color-coding will be followed.

# 12.11 Paint

The engine most and sochnical spaces should be finished with a high quality, high glass, two-part polypredicate point system. This includes the bitges and bitge figures. For case of maintenance/inspection/expair the point color should be white or as determined by the owner's representative.

There shall be no sharp edges on the bifue fracting, and all welds should be ground that is

All the medianical equipment will be pointed with the same, high gloss limith. Heses sudelectrical wiring will not be painted.

Tandboxes and shelving should also be painted with the same high pleas finish.

## 12.17 Thermal & Sound Insulation

The engine mosts will be isolated from the accommodation with thermal and sound insulation. In addition to the Silent Line specification:

Some cugine even piping requires thermal insulation, for efficient operation. This piping includes:

- HVAC chilled water
- Demestic fresh water (hot mud cold):

The specified insulation for both these systems is 20 or 22 non Amsaltex pipe insulation. All scarce in this insulation should be glock, and then these scarce should be covered with a glock strip of Amsaltex insulation. No self-adhesive tapes are to be used.

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All heads of greater than 25 degrees are to be mittered and glacel. All insulated piping that is located in the bilges should be printed with Armsflex, Armsflexial HN. Note that other paint systems will demage the insulation.

- All HVAC chilled water piping will be insulated, to avoid excessive condensation.
- All domestic fresh, has water piping will be instituted, to avoid excessive fresh has.
- Bot water and HVAC chilled water piping should be insulated for the calife piping mus.
- The diamentic fresh, cold-water piping is to be insulated in the engine rooms compartness, endy.

## 12.12.14 Pipine Architectura

The piping rates through our the resset must be designed and installed in a carefully organized manner. Piping runs in hitges and along hutchests should be stacked vertically, and never horizontally. The design of the piping runs is to be finalized and approved by the Owner's Representative before the installation bugins.

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## 13 EXTERIOR CONCEPTS

The extension concept of the pacist is us be a low profile half with long curving profiles to complement the taked rig. The superstructure is unique, providing dramatic cryle to the exterior, 180° windows will provide natural light to the salare.

Hull purifiguts will be flush insunted. The paint surfaces use to be a high gloss finish, high-lighted with highly polished stainless steel railings and deck fittings.

### 13.01 Droking System

The teak docks are to be 12 from and suitable for a yacht of this magnitude. The primary intent is to minimize weight of the decking system, but also not to satrifice the visible appearance and desphility of the system. A planking styling plan will be supplied by the design trans. The Builder or sub-contractor testy propose alternatives styles (putterns) for consideration. The following conditions will apply to the decking system:

- The planking will be a minimum of 63.5 mm (2.5") wide and will be of a parasat finish with black coulding.
- flutt end joints are to be staggered and consistent between port and stild sides.
- Margin hourds are to be 75 gpg (3") wide.
- Harch and leardware boarders are so be 75 mm wide
- Docking will be numbed into the margin learner where more surry
- The transition under kick spaces is to be a cadiused to a higher level than the planting

The took druking will not come: up to that write in edges but given drainage will be provided; locations and details to be determined on a drawing from the architects.

#### 13.01.01 Decking System Areas

The docks have the following wooden areas:

4	Flylrikke deck:	92 m²
•	Росушкі қызасы;	26 m²
٠	Aft stairs:	30 m²
•	Maio deck:	126 m²
٠	Total area:	274 m²

# 13.02 )4ybridge

Softing feders and operation of the vessel's saiding systems are breaked on the flybridge. Part and stod belong will be equipped to attend to another and course the vessel under said and power. The belon will also be the main maneuvering stations.

The selan consoles will be a low profile with vertical face for acousting of control screens and monitors. The flat section will have sailing and remonvering controls. There will be a center mounted give repeater. A detailed plus will be provided by Architects.

The tipper dock will also be used fin entertaining and relocation. Access from the main deck will be up a post side stainway. It will be unalosed by a closed betweek, which tapers aft to a low profile.

ä

#### 13.03 Forward Beck

The forward deck provides a private exterior loange area for the owner and VIP cabins. Between the halfs, extending to the forward bonn, is a web decking providing sail handling area. Just forward of the rucelle, the mooring equipment is covered with a deck that feature a terrace for the owner's suite.

## 13.04 Side Decks

The dock is assunged with this houses hatches and deck tookers for feet fills, as described in ". TWI_deck_bandess_and_lockers" drawing

## 13.05 All Main Duck

The aft main deck is assurged for relaxation and entertaining. Forward, there will be wide salon doors openings to the aft deck. There will be a large fixed sun bed with lockers make with the possibility to partly transform it into me off facing seating. There will be a selection of lease things tables and clasies that can be utilized to suit the entertaining mode. The tables will be history to function for exceptions or disting. A good partian of the forward off deck area will enclose with discussions and be air conditioned when desired.

There will be side deck sourcing fockers with various storage and technical equipment areas.

The usuin deck overhead with be made from lightweight panels and arranged with direct, indirect lighting and accordingly systems to be determined.

Eurge flusts deak batches are positioned for access to the tender facker, and other storage uses

#### 13.06 Railings, Standbiums & Wire

Railings and stans hims are described in "Gem_F04_stanckions & railing". Architects drawing.

Top railing with to be a minimum of \$100 mm above deck level. Design detail to be defined.

- All tailing is to be 38 num potished 3161, stointess steel and styled according to the drawings.
- Pulpits will have a teak-grating seat on the mid railing. Design detail to be defined.
- The main dock standshious will be 32 may diagraph policised stainless steel illetime standshints with bulk on top, numered on the side dock, at man intervals of 2200 mm in justibilitied spaget bases. All bases are to be littled with drains as appropriate to prevent the enflaction of water.
- There are to be port and stocknown! lifetime gates with (4) stanchious and braves each eight.

#### 13,87 Air Inlets and Outlets

Special attention should be paid to the integration of all air in and out of the vessel. The final designs are to be approved by Architects.

#### 13.03 .... Hatches

Deck luttches will be flush mounted, and are listed in "Gom_T05_ deck knickes and lockers".

Architects drawing.

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## 13.09 Avenings and Dadgery

Awaings and andgers will cover the Bybridge, as described in "Gent_712_flybridge_bimini". Architects plan.

# 13.10 Unper Deck Stairway

The stairway to the upper dock will be fitted with indused courtery lights and bandson milings. Sixin meads will be covered with the dock system timber and styled consistent with the docking system. Indirect lighting will be jet into the underside of the shir frame.

# 13.11 Exterior Exenitary

The exterior furnished will be supplied by the interior subcontactor. Toversory is to be determined.

#### 13.12 Jacutzi

A "Bredford Spy" or copie-atent ups will be listed on the upper deck. The spe will be built to the dimensions as provided in the plant and arranged with:

- Triater heatests
- Fregt wazer fill contestions
- Cărputatării filitere appl smissagu joi systems.
- Outlet water easié;
- Stile seating
- Intental scating
- Underwater lights
- Drain to the fuel tank as required by the Rules

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# 14 NOISE & VIBRATION CONTROL STRUCTURAL FIRE PROTECTION

The complete package on noise and vibration control has been designed and provided by SilvasLine BV. This package contains the following justus;

- Complete set of prefiminary detail (stedarion jestellation drawings.)
- Prefinancy weight calculation.

The Builder may select Silenthine BV, or autities noise and vibration consultant to work with, but with the understanding that the noise and vibration turgets are to be activeved. Silenthine BV states they will guarantee the sound and vibration targets if under conteact to the Builder.

## 14.01 Noise Terrett

The following noise targets are to be achieved.

## 14.01.01 Neisg Targets at Anchor Condition

#### Measuring conditions:

- Measuring position in the center of the cabin or room at 1.60 naturabove (logg Jove).
- All deors to be closed.
- Cabia or room completely finished.
- Air combinioning as normal speed (fan speed 2),
- Normal secondary machinery operational.
- Rouse hold equipment not taken into account.
- Securid sources <u>refore than</u> the generator set, aurenal accordary reachinary and air conditioning is not subsected accessed.
- Sea state 1
- Wind speed (Secretors 3).

At another condition, noise targets to be achieved [dB(A)].

•	Salma:	38 40
•	TV toom:	40 ~ 42
•	Owner & VIP Suite:	36 38
•	Guest onbies, port hall;	38 40
٠	Oww cabula, stied hull:	42 45
•	Galley:	45 - 48 (extraction fan leit ristising).
	Chear meser	55 - 58

# 14.01.02 Noise Turgets at Cralsian Condition (80% MCR of the main engines)

#### Measining conditions:

- Measuring positions in the center of the cabin or room at 1.60 meter above flore is vol.
- All doors to be closed.
- Cabie or rown completely finished (corner bods etc.)
- Air conditioning at normal speed (fan speed 2).
- Nonnai secundary machinery operational.
- House hold equipment not taken into account.
- Sound sources other than the main engines, graphoxes, proposition propellers, generator set, normal secondary machinery not uir conditioning is not taken into account.

Sea state 1.

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- Wind speed (Beaufort 3)
- Rudder angle maximum 2 degrees.

Critising conditions noise targets to be achieved [dB(A)].

•	Salon :	54 - 56
•	YV room:	<del>5</del> % 58
٠	Owner & VIP Suite:	48 50
	Guest gabins, poor hull afe:	∌6 58
•	Guest cabins, port hult fied;	54 ~ 56
•	Crew carries, stad leds:	53 - 60
	Gatley;	58 <del>6</del> 8
•	Crew mess:	56 × 58

## 14.0).03 Agyustic Pringry

The requirements is for excellent acoustic separation between the various partitioned uses. Notice reduction from time space to its adjusting space is to match the isolation requirements of the "Sound Transmission Class" (SPC) as given below. Achievement of the required isolation dictates special constructions (insulated walls, gasketed dones and alternood very passages). All privacy partitions must be sealed to the dock fread and procusions traversing privacy buildhoods must be scaled.

Heirseyn curupartinenis:		STC:
	Crew : cabin to cabin	35
٠	Crew : eshia to comidor	35
•	Owner - VIP : cabin to subin	40
	Owner - VIP : catin to carridge	35

The above mentioned STC-rangers are to be studied by socans of the SEA model. The composition of the separation wall(s) are added to model as well as the calm denominate, this being and revenue can be added in an early design alogo.

# 14.02 PRELIMINARY Insulation Plans

The following (analtsed) proliminary insulation drawings have been designed by Silent Line BV. Any alterations to the schedule or substitution of materials are to be approved by Silent Line BV and the Architect. A final insulation plan will be designed following the considerion of the Stutistic facing Analysis (SEA) study.

#### 14.02.01 Lazarvites and Tender Compartments

The licenties will be incolored from the road point of view. See detail insulation drawing "G-Ld-J_vI_tender computament" and "G-Ld-J_vI_diving comparisond"

The tender compartment will not be insulated.

## 14.02.02 Engine Ranges

These areas are breakness from using the mail and five point of view (A-60). See detail insulation drawing "G-La-1, v1, origine coom" and "G-La-12_v1_engine coom".

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## 14.02.03 Crew Quarters

These areas are insulated from noise point of view. See detail insulation drawing, "G-Ld-6_v1_crew mess room"

#### 14.02.04 Loundey

These areas are insulated from noise and thermal point of view. See detail insulation drawing "G-Ld-7_vt_lamnary and every forward"

#### 14.02.05 Galley

These stees are insulated from noise, thermal and fire point of view. See detail insulation drawing "Golfdol, vi. galley"

### 14.02.06 Owner & FFP Statesooms

These areas are insulated from moise and thermal point of view. See detail insulation drawing "G-Md-4, vd, 4TP bedroom" and "G-Md-5, vd, owner bedroom"

## 14.02.07 Salpu & TV Room

These areas are insulated from noise and thermal point of view. See detail insulation drawing "G-MA-3 of ration" and "G-MA-3 of types saluru"

## 14.03 Vilgration Turgets:

The maximum vibration level, measured at the ship structure, may not exceed the USO level of 4 newless (RMS) with the yacht cruising at 86% MCR, output.

The maximum vibration level, measured in the accommodation areas (which are included), may not exceed a level of 1.0 mm/s [RMS] with the yacht emising at 80% MCR comput. At anchor conglition, the maximum vibration level play and exteed 0.5 services (RMS).

Structural analysis are to be performed by Silent Line BV, or the Builder's schools consultant, uning Finite Electron Analysis software (Nastron under Windows, or equal) to avoid exemence and to ensure the above mensioned allowable vibration level of 4 tunus. This study is combined with mobility calculations on the engine and genebox foundation, framing underneath the generator sets and the half plating above the proposition propeller(s) and the half plating above the propeller(s).

Cable surmending (finaling floor, liners, separation walls and ceiling) must be installed as a box-in-box construction meaning that a direct contact herween the structure and the cable surmouting is avoided. This is to insure the maximum allowable vibration level of 0.5 may's [RMS].

Whitling and axial vibration releasations are also foreseen using the above mentioned finite Elements Analysis sultwere.

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# [4. 04. Materials:

The materials and surface areas are as listed in the attached spenarished and the installation is to be in accordance with the drawings as listed in part 14.02.

The material lists exclude the interior items as listed below:

- Hulf finers.
- Strikfresd Linera.
- Separation walls,
- Ceiling

## 14.05 Supervision During the Build Stage:

Supervision for a qualified person is required for the iostallation in order to again that the noise targets will be achieved. If under commer to the Builder, SilentLine HV will provide the following services:

 Visits to the yord, during the entire building stage, are included in our perkage. The following main visits are:

During the building stage:

- Measurements on the ship structure are forexact in assist to obtain the natural frequencies of local structures like buildingers, deak structures etc. This to make sure that the riteration ranges in regled in regio, \$4.03 are not exceeded.
- Duting the (Seponder of the significant systems):
- Visits are foresero in order to paske sure that All materials are installed in decordance with our datail insulation drawings. This to make sure that the visits largers as stated in topic 14.01,01 -- 14.01.02 are not excepted.
- During the dennunce of the interior:
  - Vishs are foresest in order to make sure that all makerials are installed in accordance
    with our densit justication drawings. This to make sure that the STC targets as stated in
    tasic 14.01.03 are not exceeded.

## 14.86 Attachments

The following documents are attached and are considered part of this specification:

- Preliminary_Lower deck_weight_Sl__version03 went.
- Proliminary_Main deck_weight calculations_v3

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## 15 DECK ROUPMENT

The deck equipment is to be according to deck layout proposal by the Architect. All deck fittings are to be installed with adequate stiffeness and backing places to support the loads and be watertight.

All deck equipment is to be of a similar manufacturer with a consistant type of finish, i.e.: polished stainless steel. Fasteness should be resistant to corrosion and to be Affen head or square drive.

## 15A RINCHES

## 15d.91 Anchor Winches

See part 07A and drawing: Gain_782_anchording_arrangement

# 15A.02 Mooring Winches

See drawing:

Gem_T03_matring_arrangement

These will be thur (4) numering winches manualed how and stem, part and stod, of suitable size for handling the mooring times. These will be located in enclosed backets along with the cleats. The foregress will have red lights for illumination.

	ORING CHES	Pushian	Num Rating	Power	Weight
ţ	Muir VC8000	Port aft	3636 kg	Hydraulie 28lpmin@175 bar	121 kg
ì	Mair VC8000	Sthá ait	3036 Kg	Sudistilité 8410 owi	
1	Lewest 88HST*	PerClast		Mydraulic	Strke
1 • Te	Lewmar KSHST ^a be also used för spi	Vort fwd ionalon ceil 1	4545 kg	fos baz	

## 15A.63 Suiting Equipment

The winches will be hydraulic. Mast and dock mounted winches will have stainless short bases and solf-tailing caps. See desving Gent_F03_declytan for details.

Manufactorer: Lewiser

Number	Position	Location	Model	Power	Wolghi
2	Soleid Sheet	In සෙසේම 1005	LMS 125	Hydraulic	385 kg eacis
2	Staysail Sheet	la coach roof	LMS 125	Hydonlic	387 kg cach
1	Maiusail Sheet	TBD	EMS 111	Hydraulic	195 kg
1	Mainsaid Halyard	Ewst cross deals	1,M(S) (2S	Hydradic	387 kg
2	Foresails Shoets	Upper deck	122 ANSTOR	Mystrautic	262 kg each
1	Mast	On thas	122 AHSTOR	Rydraolic	202 kg each

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Note that the foresail and mainsail holywids will not be loaded while sailing. The halystd winches will boist the sail and the headboard out will be locked in place. Luft tension will be set from deck level via a hydrantic Cunningland.

#### Room Controls

No.	<del>Ի</del> րոր <b>ո</b> ցը	Тура	Location
1	Mainsail topping fiff	A250-0400XX	mood larcolef
ŧ	Maircall nechual	A28040901XX	traternal botan at goosenook
ţ	Mahealt traveler	A254-110fXXX	Upper off deck coarsing
)	Boom preventer	A250-030XXX	Fareroj lemas

#### <u>184.03.02</u> Winch Controls

Captive reel which central positions are at each exterior fielm station and incally at the windles.

All mass and monting whiches are to be first switch controlled, breated at each winted station. Winds controls for the flybridge deck will be received into the commanys.

Each Hybridge kelen will have an energoney step haston for the hydrodic which power pack.

#### JSABLO3Winch Patrer

Power is to be provided by a custom hydranlic power pack system as described in the part (OH:03 of this specification.

#### BLOCKS & HARDWARE 15B

#### <u> {58.01</u> Mack Life

All blocks and sailing bandware are listed in the attached spreadsheet: Gemint hardware listing 1988.

#### <u>HATCRES, WINDOWS AND PORT HOLES</u> 15C :

The windows, but parts and cabin house parts are to be in accordance with Class and MCA ទេដ្ឋារ៉ូវបញ្ជូនប្រទៃប

#### lacount. Steverneal Glass

Structuml glass is listed in part 02

## Main salut whiteous

31/2	Average Height	Ates	<u>Tłóckness</u>	Radius of cur Rollum	rataire   Top
	man_	. 135 ²	(hile	hEI	101
2	850 E	4.8 rach 2.9 each	Tbd Tbd	29.2 2.47	29.6 2.38
2	1200	3,8 each	TE _d	23.6	24.6

## Forward windows

Nb	Hright	Width	Total Area	Thickness	
[	mor	ពារា	9Cl ²	משמ	
3	1100	1900	[3	Tild	

### Aft salos

The aft salun bulkhead wift be all glass with a combination of fixed and sliding panels.

Nb	Height	Width	Total Area	Thicknes	ļ~"
	tena	Tektot .	- ili ^{je}	35006	
	2200	8350 AM	18.4 6661	17x8	

# [SC.01.02 Partlights & Parthales

Portlights with particular locations are as per drawing: Gen_T06_hall_partily/as

## LSC-03 Handow Shading

All rationsalon, upper deck salue and owner's suite windows and door glass shades will be specialled by the kalerion designer.

## 15C.03 Window Winger

All forward pilothouse will be provided with electric window wipers and wash system in way of the interior before station.

Mathifacturer:

Hepwasth.

Type;

30KM; pautograpši sweep

Mumber:

ь

Power:

686981

Weight:

8 kg cath

## 15C.04 Oye's Hatches

All dock and locker liatelies are listed on drawing: Gen_T05_Dock Hatches & Lockers.

- All composite featches are to be flush with concealed hinges.
- · All lens ligitches are in have stainless steel frames
- Manufacturer;

Freeman Marine or equal

## 15D COVERS, BIMINES, DODGERS & CURTAINS

# LSD,01 Stain Deck Curtains

The aft main dock is to be enclosed with Eisenglass curtains and will be an air conditioned space (port, 4thd stot aft enclosure). The side curtains should extend from the aft roaf buildhead 5.2 m.

The contains should be furling into the overficed.

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The elieut is also considering a tall down Venetians blinds type protection at the firshits aft and of the flybridge to provide shade to make deck cockpit. The design will be provided by the Architects.

#### 150.02 Flybridge Himini

See drawing: Gem_112_flybrldge_bimini

A hard top binnini will present two thirds of the flybridge deck area. It will be built in composite with Misminum support pitlars as per the Aschitects dearrings.

The Builder will propose a removable enclosure system for the top.

#### 252NAY Flybridge Hadgers

The primary function will be to protect the helm stations from wind and rain. The dodgers will fold up into the binimi. It will be built according to the Aschitects design.

#### 150.04Suil Cavers

The head sails and nameral will be provided with sun covers.

Cusor and materials to be the Owner's choice.

#### 150.05 Protective Deck Knumers & Congre

Deck runners are to be provided to protect the decking. There will be a justening by sections system provided that is to be discrete. Remocy will be provided for

- Upper deck
- Main all deck traffic areas (defined as direct paths from hidders and passageways)
- อิริสต์ รอสิต ลิ (Wirogan
- Forward athwarfalaga passageway ausā stair

Cokyr and moterials to be selected.

#### <u> 15E</u> DÉCK HARDWARE

#### 15EMSneachions

#### 15E.0L01Materials

The Builder will quote for 2 standsion numerials:

Chaison 1:

Polished 316L Stainless steel

Option 2:

ไม่อธุเงณ

#### 15E.01.02 Main Deck

See drawing: Gen_F04_stanchions & railings.

The main deck standings will be 32 mm diameter with ball on top, mounted on the side d≪k. at hair, intervals of 2200 next.

28 Aprát 2005 Page 103 of 123 There are to be port and starboard lifetime gates with (4) standbious and braces excit side. Top course to be a minimum of 1000 mm above deek level.

## 15E.01.03 Oppor Deck

See drawing: Gem_V04_stanchians & railings.

The upper deck will be surrounded by a model bullwark with railings to a total height of 1900 and Railing section will be of suitable size and section for aeathetics. Details to be approved by the Owner:

All stairway railings are to be 38 mm diangler to a total beight of 1600 mm.

All standaions will be mannated in or on insulated spigot bases to protect the paint finish and prevent contact between the dissimilar motals. All bases are to be fitted with during as appropriate to prevent the collection of water.

## 15E.02 Pulojis

How pulpits, 2, we to be reside our of 38 cam tubing as par the drawing. Pulpits will have a teak sent on mild sailing.

# 15E.03 Aft Rullings

Aft railings are to be made out of 38 mm inhing sugable aval section or reak cap rail. Railings use to archide brackers for MOM and Horseshoe busy.

Aft stillings will be stated with transom openings as glown in the drawings.

## ISEAII Railing wire:

The vessel is to be sugrounded with millings in accordance with the Roles. A minimum of 3 courses of millings are required.

- Upper wire is to be -19 standard rock.
- Lower contract is to be 46 standard rod
- Itsiling passages will be opposited wire and have pelican books or other suitable opening features
- Rods and wires are to have end fittings stal tensing adjustment.

# 13E.05 Deck Pittings & Mooring Hardware

Deck fittings and mooring hardware are shown on throwings:

Gem_1703_Deck Plan and Geta_703_maoring_arrangement

## 15E.06 Netting

Nothing consisting of that webbing will be fitted between each half and longerous and between the forward beam and the longerou.

A suitable perimeter fustening system will be provided for the full perimeter of the notting,

# 15E-67 Other Fittings

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Other fittings will be provided as follows:

- Stainless steel bow or eyes in front of the next for hooking thee halyands.
- One (1) SS base sucket on the upper deck all milling with one cathon liber floggrots.
- SS drain fittings in the Hybridge dock, use in deck and forward wall deck as accessary.
- Bye fitting at each furward busing half foundation for attachment of the anchor bridge.

Note that there will be other miscellaneous fitting requires.

# 15F BOARIENG LADDERS

# 15P.07 Passcreftes

See ammgements on drawings:

Gem_T04_aft pasverelle vod Gem_TXI_side passerelle

The yacht will be provided with two carbon liber (2) hydraulic passerviles that retrottion the transport and starbourd side. The passerviles will be provided by C-Quip. The passerviles will be fitted with:

- Call ladios.
- Courtesy Lights
- Remayable fleilings
- Teak waikway.

# 15F 41 01 Sthd Side Payerelle

The stud passerelle will be retracting (ato the side and slow to 80° fivel and aft. The passerelle should articulate to 40° for use near the waterline or of facilities, which are higher. It should therefore be equipped with pivoting steps.

## 35F.02.03 Part SR Passerelle

The post passerells will be retracting into the transmit. The passerelle should extend a minimum of 3 in and articulate to 4/4 \$5.65" for use near the waterline of at facilities, which my higher.

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## 16 INVENTORY

# 16.01 Ruilder Supplied

The following additional inventory will be provided by the Builder and installed as placest on board with appropriate spreage arrangements:

- SCLIBA Congressor as listed in past 67F..63.
- Sufety equipment as tissed in part 17
- Mattresses by Handradt Martness Co., or equal; its sized in the interior concepts.
- Two (2) outboard motor storage rocks in slikt lazarens.
- Two (2) hostus's clusic with tool packets provided.
- One (1) swinning laiders, made of stablest steel with teak steps for all platform which
  holes into place, to running no movement.
- Two (2) telescopic beat books made of aluminum.
- Two (2) anchus tode bridats at the bows with chain claw for the anchor chain. Ton (10)
  appropriate sized inflatable funders
- Ton (10) moreing lines sized to the estisfaction of the Administration. Suitable eye splices
  will be at one end for the manning amangianents. Butla will be this hot to prevent traying.
- Space pasts inventory for main engines, generators, water makers, find & purifier systems, waste treatment systems, hydraulic systems and other spare parts to be meanmounted by the experiment suppliers.

## 16.02 Owner Supplied

The following items will be supplied by the owner and installed by the Builder. The Builder shall be responsible for replacible, uncrusing, receiving, storing in a scitable manner and installation on the vesses at the proper times that thems and any other articles consigned to the builder for the Owner's account for use in the vesses.

That which is one to the Builder, will be installed by the Duilder with all necessary foundations, connections and related equipment. Suitable lockers, drawers at charles shall be provided as provided. No additional charge shall be study for this service.

Only the items specifically listed below will supplied by the Changrand anything else required for a complete vessel of the type described shall be provided by the Ruilder.

- Electropies as listed ist part 14.
- Loose deck fundame fisted ja part 13 Exterior Concepts
- Stills, as listed in gert 22.
- Dive equipment as listed in part 23.
- Tonders as fisted to part 24.
- Exercise aquipment
- Type III, IV and V personal flux stitm devices for small eng.
- Safety learnesses
- Other water toys 'TBD'
- Yeels for dock and engine mouse
- Cleaning equipment
- Required Regulatory publications, paper charls, guides, etc.
- Desired audin, video and printed media
- Medical kits and inventory.
- Chieut, table senings, flat wage, crockery.
- Pillows, bedding, fineus, towels, esc.
- Cet w quideonsy

## 17 SAFETY EQUIPMENT

## 17.6) General

The life saving equipment inventory is to enopply with MCA requirements with the following adminimum equipment provided:

# 17.02 13fc Refts

Life mils will be installed in accordance with drawing: Gent_C01 & C02_Sufety_plan. Dimensions and weights are of the container pack.

Manufacturer: Viking
 Model: 10 DK
 Number: Four (4)

Each life cut to be titted with SOLAS "A" pack. A placent giving instructions for launching and inflating the life cuts must be posted in a conspicuous place.

Emergency lighting at the tille rull mations will be provided as required by the regulations-

# 17:03. Personal Floatation Devices (PFIIs)

The Owner will supply personal floatation devices.

Storage of PFDs is to be in accordance with MCA regulations.

## 17.94 Safety Harnesses

Safety learnesses will be Owner supplied heres,

## 17.05 Ring Life Buops

Three (3) life busys, or number as required by MEA regulations, are to be provided and amounted in accordance with MCA regulations.

## 17.06 Flores

Distress signals will be provided in accordance with MCA regulations.

## 17.67 Mun Overboard Systems

There will be a man exerboard system(s). The overboard modules, in a container sound location to be determined.

Musufocuser: TBD
 Type: TBD
 Number: TBD

## 17.08 Medical Kit

The medical kit will be Owner supplied,

# 19 PAINTING WORK

The exterior and interior point systems are to be an Interestional Paint system from filler and prince Systems to the finials costs. If the Builder or paint continuous prefers an attenuative system, this is to be approved by the Owner's Representative.

Paint colors are to be selected by the Owner. Presently, the topsides will be a dark many blue and super structure (s a) white. Bout top and other account are not yet determined.

In consideration of developing point technology, the Builder, and the Builder's paint subcontractor, if applicable, with consult with the paint system supplier for the best type of system is apply. The Owner's Representative may provide an independent paint consultant to review, inspect and recommend on the paint system and placess.

Any exterior finish costs are not to be mechanically palished.

The quality of the exterior paint system is to be a Super Vacht Finish, as noted in the below table. The Builder will provide the Owner's Representative with a sample of high glass vertical and horizontal surfaces, plus a proposed standard to be within the tunnel.

Mail Area	Gloss range Seesiates	Dessi Particles prv 29 dycimeter	Surface textury	Fairness	Sags & Runes
Paterior repoides Conferred and infromed and infromed analysis and august symptomic analysis	୨ନ-ଖନ୍ୟ ଭୁ ଅନ	K (4: 8.3 aum	CSS or Reservings panel	Susped theoryteon Construction pagess	Leduczewinyjące skiedowyce wwest,a wwest,a wwest,a westewinyjące westewinyjące westewinyjące westewinyjące westewinyjące westewinyjące westewinyjące westewinyjące
(ජිරේධාලයන් 10කු 7	85-91% <u>(§ 60</u> 7"	រិ រិក្សាសិរីលេក	15-20	<u>.</u> }	Soisin
Turing bontam	80°65% şij sa?	10 60 0.3 1116	<del>8</del> -12	•	Same
Aleibed Steibed	Glass miller	Asagnified Visins	Vensal Vensal	Yayual	Vigaat

## Closs Range Nature

- Gless the assurances are to be taken over 5% of the total attribute area, divided into 1 m² sections.
- Hach I m² section will be measured at 5 sputs and the average calculated.
- Each spot will have the average of 3 readings taken within 5 cm.
- The surface areas will be distilled over types of toodises: horizontal, vertical, sloped, exposed, non-exposed and deck stees (iet upper deck, snain (kick, etc.)
- 5. None of the 5 spor averages shall be below 95% of the specified gloss value. One of each of the teadings for a spot average may be below 95% of the specified gloss value, but not below 80% of the specified value.
- For each 1 m² area, the spot averages shall not be below the specified gloss value.

# 19.01 Painting Work Hall Inside

Asil surfaces are to be disc ground to remove atil sharp edges and washed to remove confamiliants.

Aft wood is to be fully scaled or suitably treated on all sides to prevent ingress of maintene and 681.

All wondwork that has to be varnished will be varnished with two component varnish. Finish coas to be as directed per the designers drawings.

All interior cable area point work is specified in part 12 Interior Concepts.

Elisti Anside:

Not painted behind insulation.

All bilges and other areas are painted.

Engine rouse:

Not painted behind insulation.

All bilges are painted.

Samus Fankst

Ceratakole Ceramkote

Water Tauks:

Fuel and oil Maks:

Not coated.

#### 19.01.41. High Interior Colors

Lockers above deck plates: Bilgas balow deck plates:

Off white, or Owner's choice Light gray, or Owner's Classica.

#### t9.02Hall Exterior

The folkowing scalace areas are preliminary:

High helow water line: fluit and superstructure above waterline: 500 su patenti. 5.382 sq D.

1,265 sq musics - 13,616 sq fl

Wet deck masel:

266 są arbora

 $2.863 \, \text{M} \, \Omega$ 

#### <u> Hull, below waterling, Syrthox Proparation — Alyminum Substrate</u> 12312421

- Prior to soughtesting, it is imperative to eleme all surfaces with laterius 202 I Fibergless Solvent Wash for the retraval of wax, silveone and other surface contaminants. Using cleaned dry rags, suturate with Interlex 202 Fibergless Solvent Wash and serub the surface thoroughly. Before the solving drives, where up completely with separate clean, day rags. Work in small, easily reachable areas at a time. Repeat this procedure if necessary to custoe all surface contaminants are proposity topoweed.
- An efficient way to tell when all contaminants residue has been thereved is by 1 appraying the entire half with water. If the water beads up, contaminants are still present. Repeat step 1 procedure and until all the water "theres" completely over the sixtໃນປະເ
- Sundalisa all aluquinum surfaces to clean bright, near white mutal finish with 3 paydhup mesh Silica Sand. Blow down the entire substrate with a clean air line using a clean tag to remove all blasting testidue. Within (l) one hour of small-lasting, immediately apply the first cout of X(see step two below).
- 4 If candiducting is not possible, disk grind the entire underwater hull surfaces with 24 grit grinding dises. Thomsaghly wash all standard surfaces once again with lateriux 202 Pibezglass Solvent Wesh using the "two rag wipe down method" and changing rags frequently.

# 19.62.02 Application procedure

The application procedures will be determined by the paint system supplier to cooperation with the Owner's Representative and his consultants.

# 19.02.03 Underwater Hall Fairing

If entergies underwates built listing is necessary, it will be a light recipit system applied with a proper tie cost in agreement with the Architect.

# 19.03 Hull Gutside, above waterline

# 19.03.01 Surface Preparation - Atuminum Substrate

The application procedures will be determined by the paint system supplies in cooperation with the Owner's Representative and his consultants.

# 19.03.02 Topcouts

The application procedures will be determined by the paint system supplier in economical with the Owner's Representative and his consultants.

## 19.94 Egynyli Wark on Deck

Varnish work on deck to be full grain, hi gloss finish.

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GEMINI Project Contract Specifications

# ze_____spars

Please refer to the Architecus drawings for accurate dimensions of the spars, suit plan and rig. toads -- drawings;

- Geor_Soft Plan
- Gen_Rlg Loads
- Gem Rick Plan, Fittings & Hardwarz Flan

## 20.03 Principal diagensions

The preliminary specimes are as follows:

•	Overall length;	5,3000
•	Section depth:	1100
•	Section width:	700

"("se following are estimated from the sail plan:

٠	<b>!</b> *	47275
•	6	15465
٠	l	45850
٠	1	£763S
*	\$ ₀	7.6c 14 Norsus
•	i,	6.2e 14 N.nuaf

# 20.02 General Cancept

The spor and began will be constructed of ensisten fiber. The stast will be without spreaders, have a topological separation and have a ball & socker level fittings with pivot suspec. Note that the rig will be jacked from the deck and appropriate structure is required.

The boom will issue an internal hydrastic topping lift and conhact systems with separate chambers for hydrantic, electric and rigging systems. The hours will be a 'park areane' style to contain the said when reefest of facility.

All hardware is in be instailed with suitable invalating or howies materials to prevent conversion between the components.

The most is to be arranged with steps and a platform at the height of the gooseneck.

The finish of the mast and butto are to be to the owners' choice of solors.

Sheets and Halyards are listed in the part 22 Running Rigging.

### 20A MAST COMPONENTS

## 20A.01 Massiceud

(Sadson fiber expected top section and masthcast with: (16 he confirmed with mast builder)

- One sheave for train halyard (backside).
- Two sheaves (post and starboard) for bos'n chair lines (post and starboard)
- Three all log for topping lift, main halyard porchase fix point, and spare
- 2 sheave blocks for burged halyard

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- 2 eyes for safety lines.
- A remotable stops for mastheus access.
- Ground attachment for fightning and

#### 204,82 Mass Finings & Hardware

(to be confirmed with mast builder). The most will be attached with:

- Geneaker hig inng with sheave and sheave box for gensiaker halyard.
- Spinnaker by rang with steave and showe box for spinnaker helyard.
- Hendstay Jug tung with absave and absave box for tolent helyard.
- Junea forestay hig thing with sheave and sheave box for stoyspit
- Storm sailing tang wish sheave and sheave box for smeasail.
- Two sails (post and starboard) with one traveler on each for good line
- Two hydraulic (or manual) bendsail ladyard tensioners (solent and staysail)
- Shroud uttachments.
- Port and silvi sheave bones for lazy jacks.
- Cowling for port and sibd foresteck lights
- Cowling for deck lights for owner's terrace and ground tackle.
- Internal vent pipe(s) for gray and black water systems.
- Electrical conduit and connection box for witing and electronics
- 2 mount brickets for radar arrays
- Required SS hydrautic fittings for boom hydrautics
- Sail unck with headboard, headboard lock system and batten car system. Note: headboard to look at full lift and reef point stations to remove land from halvard.
- Ground conductor for lightning protection flot copper strap
- Lightning rod
- Boom goosenesk foring
- Hasyurd and reef lines exits with SS chafe protection as per < Gens deckutan>
- Refer on drawing «Gem_bardware_listing» is part 15-Deck Equipment, for classic, janumers askl clents oscittast.

#### 204.04 Mass Lighting.

Lighting ix to be wired and installed to comply with international Regulations For Preventing. Collisions At Sea, 1972, as umended. Lights mounted on the mast column to have suitable paneating brackets and protective guards. Light particulars use listed in part 18D.04 of this specifications. The following provisious with be made for the electrical options listed holow.

- W)jite sipobe light 360°
- Red 360" mastheed light.
- Green 360° below must lead red light (night sailing).
- Steaming light on thast front
- Part & sthis forward deck lights
- Port & sthe anchor gear uses deck lights
- Two under boom dock lights for fly bridge
- Controllable spot lights

### Previsions to be made:

- Provide protective grands, supports and brackets
- Publing of cables in mast
- Aff lights and their wiring

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All cables in coughija

## 204.05 Boom Components

The bosto is to be carbon fiber with tapered and and fitted with:

- Gossephek fitting on a hydraulic cytinder fixed on the mast ( to push boom from most for outhall trinning )
- Separate charabers for fixes and exercic wiring.
- Sequente charaber for stowing space said batteria
- There (3) inhound reef point systems with internal hook for each reefing line.
- Captive winch for a 4:1 porchase amineail sheet
- Internal honors proventer by draudic cylinder.
- Internal topping lift bydraudic adjustment
- Six (6) side logs for lazyjack system.
- bremat deck lights (2)
- Junction hax for lights

## 208.91 Longeron

See drawing: Gem Jongitudinal & transperse fied beams

The largeron is to be constructed of cutton filter.

Langth; \$\$10 mm
 Section; 250 to \$80 mm
 Weight: TSD

### Fittings:

- Weisleck etadoptate
- Forward transverse beam attaclarism
- Headying attactument
- Staymil attachment
- Gennaket ujtuelamast
- Stoere sail articleicoort
- Clasminers for hydroulic lines and electric wiring
- Geometel strap for beautysays.
- Nettörg arrushment
- Non-skid walking surface
- Access plates for internal systems.
- Through beam inlet an oralet for spinnaker tack line adjustment, gennaker and sraysail
  furling loop
- Custom soller (ref on drek plan)

## 28C.03 Forward Transverse Beam

Gr. langitudinal & transverse fied houses

The forward beam is to be carban fiber.

Length: §0200 mm
 Section: 450 x 260 mm

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______

Weight:

Ukid, kg estámated

## Fillings:

- · Kust foundation attachniques
- Longoreo attachment
- Martingale foundations
- Mactingate stuy attachonous.
- Chandlers for hydraulic lines and electric wiring (if required).
- Ground strap for headstays.
- Netting attachment
- Access plates for internal systems.

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# 21 STANDING RIGGING

The final specifications are to be determined.

- The standing rigging will be a X (?) system.
- A data book will be made for all standing and running rigging.

The following is to be used as a guide:

Description	Length	Size
Main stay	58000	ROD # 320 min
Rood Learning Book Milling		Tod
High faligua jawa		Rxt
Inser Stay	1630D	Kevlar # 91 min
Red semination filling	TT :	₹bd
High ladgus jaws		TIXE
Main Shroud	63900	Kevlar 2207 min
Host terminglism lilling		The
High fatigne jaws	}	Tbd
Lower Staged	[23000	Keylaz 79T min
Flod ferminglian litting		Tarj
High Satigue jaws		Tad

## 22 RUNNING REGGING

## 224 Halyards & Sleeces

Preliminary halyanis, sheets and miscellaneous running rigging are listed in the attached spreadsheet 22-Sheets_Halyands V.03

All lines will be suitefully terminated with fissed and witipped cads.

# 22B Furting Systems

The sizes of the hydraulic furling systems and foils are to be configured with the manufacturer for the said dispensions and and vices.

#### 

Furling system for the Solent will be controlled at hoth flybridge heint stations.

Manufacturer: Reckmana
Type: RF-90-6
Power: Hydraulic
Flow; 60 Vusin
Weight: 235 kg

Headstay Foil:

Manuflicturer: Reckissanse

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7);;≥; Cathon Profile: 88 47 m LengthWeight 123 kg

#### 2ZB, 02 Staysait

Finding system for the Staysoil will be counciled at hoth flybridge helm stations.

Мацибастите: Recknou RF-99-5,5 Турст Power: Hydraulic 45 Veria Blow: Weight: 98 kg

# Nendstay Puil:

Manufactuser: Reckmanu Carteen Туре: 87 Profile: 36 m Leagtle: Weight: 75 kg

#### <u> 22C</u> RIGGING MISCELLANEOUS

The following will be provided:

2 hydraulie laifyand tensions cylinders for the:

TBD i a Yabkec प्रभुक्त: 1330) 1 a Staysaif Type:

- I bydraalie rad sigging catter
- 3 double satched legalities for manual back up functions
- 3 single ratches handles for manual back up functions

Van Prieghem & Launot Prévost Navai Architects

#### SAILS 23

Sails will be supplied by the Owner. The yard will support the production, delivery and fifting out of the sails.

The inventory and dimensions are provisional pending final design.

#### 23.0<u>1.</u> *Inventors*

#### 23.05.01 Main

Primary naterial: Secondary material: t.b.d. i.b.d.

Dimenajous:

47.3 [34][ 15.5 febt

522 m² Approxiarea

#### 23.01.02 Solens

Primary made [4]: Secondary nesterial: 1.b.d. t.b.d.

Diamousions:

45.21.00 J47 (#

326 ру[‡] Аррики акса

#### 23.01<u>.03</u> Staysail.

Primary solerial: Secondary material: 1. ls.d.

Dignerators:

1.b.d. 34.5 Laff

9.9 74

172 m² Approxima

#### 23.01.03 Storm Jil)

Printary material: Secondary material: 5.5ad.

Diamensions:

t.b.d. 22.4 排棄

5.6 1.91

65 m⁸ Арргох ягеа

#### 23.01.04 Сенияйся

Dimensions:

590 arž approx.

#### 23.01.05 <u>Asymmetricul spinuuker</u>

Dimensions:

1800 in approx.

# 24 TENDERS

The readers will be owner supplied.

The Builder will work with the Owner's Representatives and suppliers to provide accessary checks and bandling equipment for the stowage, banach and retrieving of the tenders.

The Builder will provide for receiving and storage of the tenders.

28 April 2005 Page 123 of 123

# EXHIBIT C

# Holland+Knight

Tul 212 583 9208 Fax 282 395 9010 Hofland & Kreght ELP 195 Breatkray, 24th Floor New York, NY (UU07-3189 Warwaldaw.com

Bato Forsberg 272 573 3316 Lam.forsásengötúsjayv.com

January 11, 2008

Mark S. Donahue Derecktor Shipyards 837 Scaview Avenue Bridgeport, CT 00607-1607

Re: 445' Sailing Calamoran "Gentini" - Delivery Delay

### Dear Marks

During the onsite meeting on June 18, 2007, the Owner of the Gemini project requested a "global proposal" from Detector Shippards dealing with the projected delay of the Vessel's delivery. The Builder's proposal was to include addressing any delays that were allegedly caused by pending Change Orders. You will recall that under the contract terms any delay in the Delivery Date attributable to a particular Change Order must be agreed in the signed Change Order, and there will be no extension of the Delivery Date on account of a particular Change Order unless and except to the extent it is agreed in that Change Order.

As of today's date, even though the contractual Delivery Date has come and gone, no proposal has been received from Derecktor Shipyards addressing the delay in delivery of the Vessel. All that has been received are assertions of the number of hours of engineering since by Builder and its subcontractor, NGA, and presidention time by Builder attributable to certain Change Orders, and the suggestion that by some formula those should extend the Delivery Date. Although this argument may on the surface seem reasonable to Derecktor Shipyards, it is anacceptable to the Owner for a very simple reason, namely, that the subject Change Orders have not been the real cause of the delay in delivery of the Vessel. While the Owner acknowledges that there will indeed he some cost impact attributable to the engineering and production time incurred with respect to certain Change Orders, so for as Owner can determine there is no delay impact on the Delivery Date caused by such Change Orders. Rather, the delay in delivery has been caused by delays for which the Builder is responsible, such as delays by the Builder and its subcontractors in performing and completing both engineering work and production work on the Vessel, delays resulting from reworking defective or improperty planned work, and delays in obtaining critical machinery, equipment, hatches, etc. These delays are the result of the Builder's "management" of the project. They have not been impacted, much less caused by Change Orders. The Change Order work has been going on concurrently with other work on the Vessel, but has not deleved January 11, 2008 Page 2

that other work. In fact, even if all the Change Order work was complete as of today, the Builder is still many months away from completing and delivering the Vessel because of project management issues unrelated to the Change Orders.

Hader the Vessel Construction Agreement (the "Agreement"), the Delivery Date was to be November 30, 2007. The engoing delay in delivery tesults in the Builder being in material deliadi under the Agreement. Under Derecktor Shippard's most recently revised construction schedule, delivery is not currently sufficipated before Angust 14, 2008. If in fact the Vessel is delivered on that projected date, the delays would total more than 250 days. Article 21 of the Agreement provides the Owner's remedies in the event of Builder's material default. Although most defaults are subject to the Builder's right to cure after receiving notice of default, the Owner is entitled to elect to terminate the Agreement if delivery is delayed over 120 days, and Builder has no right of cure in the event of such a termination. The Owner is not at this time electing to terminate the Agreement based on Builder's default; however, the Owner is specifically reserving all of its rights under Article 21.

Accordingly, please be advised that the Owner has not waived and will not waive any of its rights under the Agreement, and specifically reserves all of its rights and remedies with respect to definal by the Builder. We might note that this includes the right, in the absence of a liquidated damages limitation, to claim its actual damages resulting from the delay in delivery, which may include, among other things, Owner cost of funds or loss of interest during the period of delay, lost charter income, and various other actual damages. Meanwhile, the Owner is still awaiting receipt of a "global proposal" from the Builder on addressing the delay issues.

Sincerely yours,

# **EXHIBIT D**

# Geminî H LTD.

Cayman Business Park, A7, P.O. Box 10306 APO, Grand Caymau, Cuyman Islands

July 11, 2008

Via c-mail, Confirmed by Letter via U.S. Postal Service

Derecktor Shipyards Come, LLC Aun: Mr. Paul Derecktor \$37 Scaview Orive Bridgeport, Connecticut 06607

Pauld@dgreektor.com

Elleanff Grossman & Schole LLP Attn: Barry Grossman, Esq. 379 Eaxington Avenue New York, New York 10017

higrosoman@egskip com

Ro: Notice of Default and Intended Termination, and in the alternative, Notice of Material Breach and Demand for Cure

## Cleatlemen:

This is a Notice of Default and Intended Termination, and in the alternative. Notice of Material Breach and Demand for Care, given pursuant to Article 24 of the Vessel Construction Agreement dated as of time 30, 2005 (the "Contract") between Desection Shipperds Conn., ELC ("Builder") and Gemini II Ltd. ("Owner") for the construction of the 145" Suiling Catamaran, project named "GEMINI", Builder's Hull No. 85135 (the "Vessel").

We refer to the letter dated January 11, 2008 from our counsel, Holland & Knight LLP, to Builder, informing you of, among things. Builder's material breach of and default under the Contract as a result of its failure to complete and deliver the Vesset by the November 30, 2007 "Delivery Date" as defined in the Contract. As was noted in that letter, under your then most recently revised Construction Schedule delivery of the Vessel was anticipated to be delayed until

Detecktor Shipyards Coon., LLC Atta: Mr. Paul Detecktor July 11, 2008 Page 2 of 4

August 14, 2008. Although the Owner elected not to terminate the Contract at that time on account of the disfault. Owner specifically reserved all of its rights under Article 21 of the Contract. Note, according to the most recently revised Construction Schedule of which Builder has informed the Owner, the Vessel is not scheduled to be completed until at least June or July of 2009, over a year and a half late.

You are hereby notified pursuant to Article 21 a) of the Contract that the Owner considers the Builder to be in material breach of Section 13.2 a) of the Contract because Builder has failed to complete and deliver the Vessel by the "Delivery Date", as defined in the Contract. The Delivery Date is contractually specified as November 30, 2007, subject to such adjustments as may be permitted under the terms of the Contract. Under Section 13.2 b) of the Contract, the Builder has no right to assert claims for extensions of the Delivery Date except to the extent set forth in Change Orders signed by both parties, or undfor to the extent agreed pursuant to Section 13.2 c) - Section 13.2 c) of the Contract, or to the extent determined in accordance with Article 27 of the Contract. No extensions have been claimed or agreed pursuant to Section 13.2 c) - Section 13.2 e), and note have been claimed or determined in accordance with Article 27. According to our records, although the Builder has made numerous unitateral claims for extensions relating to Change Orders, no extensions have been agreed in any of the Change Orders signed by both parties. Accordingly the contractual "Delivery Date" is still November 30, 2007, by which date Builder did not complete and deliver the Vessel.

In addition to being in material breach of the Contract with respect to late delivery, we note that the breach is one as to which Builder has no contractual right to an opportunity to cace. Article 21 a)(ii) of the Contract provides that Builder has a right to care certain types of brenches within thirty (30) days after Owner's notice of breach and respect that the breach be remedied. As you well know, however, Article 21 a)(ii) specifically provides that "if the Builder thils to complete the Vessel within one hundred and twenty (120) calendar days after the Delivery Date, the Owner may declare the Builder in default without providing an opportunity to oure." Because Builder has not completed the Vessel by the contractual Delivery Date, and apparently can not end will not complete and deliver the Vessel within one hundred and twenty (120) calendar days after the Delivery Date, the Owner hereby declares the Builder to be in material breach of the Contract, without either a right to of the ability to cure such breach, and accordingly the Owner hereby declares the Builder in default parsonnt to Article 21 a)(ii) of the Contract.

Additionally, we note the deflects suspension or cossistion of "Construction" (as defined in the Contract) on the Vessel from on or before time 13, 2008 without Builder being expressly entitled to do so on account of some action or omission or default by the Owner. The suspension or cossistion of Construction, if it sominues for more than thirty (30) days, will constitute a separate default under Article 21 a)(i) of the Contract. Additionally, Builder appears to have become insolvent, a default under Article 21 a)(iv) of the Contract. Because of Builder's defaults under the Contract, Owner hereby notifies the Builder of its intention to terminate the Contract

Derecktor Shipvards Conn., M.C. Attn: Mr. Paul Derecktor July 11, 2008 Page 3 of 4

by delivering a formal written termination notice lifteen (15) days or more after the date of this ferter.

In addition to the defaults detailed above. Owner hereby notifies Builder oursuant to Article 21 a)(ii) of the Contract that it considers the Boilder to be in material breach of the Contract as detailed below, and demands that Builder care all such breaches within thirty (30): days of the date of this letter. If such breaghes are not cored within the thirty (30) day period, then Owner intends to give purpose to Article 21 ht notice of further defaolts and of Owner's integrion to terminate the Contract if the defaults continue for more than 58cca (15) days after the notice. The meterial breaches that the Owner demands the Builder timely care as föllaves:

- E. Faithire to pay when due all involces, charges or claims due for labor, services, materials. Equipment, and supplies famished for the work done under the Contract by any and all persons and entities for which it is Builder's obligation to pay under the Contract, including Builder's Subcontractors, as required under Section 8.2 of the Contract;
- 2. Failure to compley commercially reasonable construction practices, and to abide by bast shipyard practices, including especially the failure to continuously employ a full complement of qualified production workers, engineers, managers and subcontractors, all working a stundard 40 hope work week, as needed to meet the original Construction Schedule and Delivery Date, thereby causing the Vessel not to be completed and delivered by the Delivery Date as contemplated under Section 8.5 of the Contract:
- 3. Pailure to institute and maintain an effective weight memitoring and control program as required under Section 8.6 of the Contract so that the Vessel will not exceed the Adjusted Guaranteed Weight determined in accordance with Section 19.2 agil of the Contract;
- Demanding adjustments to the Contract Price without any contracted basis. 4. submitting spurious Change Orders not justified under the Contract, or otherwise demanding payments from Owner of money for which the Builder has no right to claim under Article 10 or otherwise of the Contract, and making such demands under threat of stopping or suspending work on the Vessel and/or actually stopping or suspending work on the Vessel if/when the Owner refuses to accede to such invalid and noncontractual demands for extra money;
- 5. Failure to comply with the Change Order procedures specified under Arriele (114) of the Contract, including without limitation failure to timely prepare quotations or proposed Change Orders before commencing the associated work, pricing the Change Orders contrary to the contractuality provided methodology for pricing, and claiming extensions of the Delivery Date that do not in fact represent construction delays caused by the Change Orders (Builder being so delayed in other respects that the Change Orders are not the proximate cause of the delay in completion of the Vessel);

Derection Shipperds Cond., L.L.C. Autr., Mr. Paul Dereckton July 11, 2008 Page 4 of 4

- 6. Pailure to complete promptly all work corresponding to milestones 15, 16 and 17 for which Builder requested the Owner to advance full or partial milestone payments, and which advanced full or partial milestone payments were made by the Owner in good faith reliance on Builder's undertakings to promptly complete the associated milestones;
- Pailure to complete and deliver the Vessel by the contractual Delivery Date as required under Section 13.2 of the Contract; and
- 8. Faiture to keep the Vessel, Equipment and Owner Supplied Items fully insured for their full replacement value under insurance policies that comply with all of the requirements of Article 22, and faiture to furnish to Owner copies of such policies from time to time in effect.

We hereby notify you of the foregoing defaults and material breaches and demand that each default or breach he cared immediately, and in any event within the time. If any, permitted by the Contract, failing which Owner intends to take the necessary steps pursuant to Arbitle 21 b) of the Contract to terminate the Contract.

Owner reserves all of its rights and remedies, none of which are waived.

Sincerety yours,

Gemini II Ltd.

Talle

cc.

L. Forsburg, Esq.

M. Huhler, Esq.

1. Toricllo, Esq.

G Bladen

D. McMahon, Esq.

# **EXHIBIT E**

# Holland+Knight

Tel 212 563 3200 Fax 212 388 9010 Holland & Holghi W.P 195 Scootway New York, My 18887-3199 www.hkiaw.com

Page 98 of 99

gys Forsborg gy: \$13,7356 jarsJoreterg@tklaw.com

July 14, 2008

# Via e-mall, Confirmed by Letter via U.S. Postal Service

Derecktor Shippards Conn., LLC Attr. Mr. Paul Derecktor 837 Seaview Drive Bridgenort, Connecticut 06607

## Pauld@derecktor.com

Ettenoff Grossman & Schole LLP Attu: Barry Grossman, Esq. 370 Lexington Avenue New York, New York 10017

# bigrossiem@egsllp.com

Barger & Wolen LLP Attn: David J. McMahon 650 California Street, Ninth Floor San Prancisco, California 94108

## diremation@barwol.com

Re: Notice of Default and Intended Termination, and in the alternative, Notice of Material Breach and Domand for Cure

## Contlement:

This is a Notice of Default and Intended Termination, and in the alternative, Notice of Material Breach and Demand for Cure, given pursuant to Article 21 of the Vessel Construction Agreement dated as of June 30, 2005 (the "Contract") between Tracektor Shippards Conn., L.C. ("Builder") and Gunini H Ltd. ("Owner") for the construction of the 145' Sailing Catamaran, project named "GEMINI", Builder's Hall No. 85135 (the "Vessel").

Owner incorporates its previous Notice of Default, dated January 11, 2008 and July 11, 2008.

Derecktor Shipyards Conn., LLC July 14, 2008 Page 2

You are hereby notified pursuant to Article 21 a) of the Contract that the Owner considers the Builder to be in material breach of the initial paragraph of the Contract and Section 8.5 of the Contract which incorporates Section 01.05 of the Specifications (Ex. A to the Contract). In the initial paragraph of the contract, Builder agreed to build the Vessel in accordance with "best yacht building practices." Section 01.05 requires the Builder "guarantee skilled workmanship, in keeping with the best yacht construction practice, and in conformity with the plans and specifications as approved in writing by the owners Representative."

Builder failed to abide by best yacht building and construction practices by uniferently moving the Owner's Vessel on July 12, 2008 from the building in which the Vessel has been constructed to a structure that is made from cargo containers ("Cargo Container Structure"). The Cargo Container Structure is not fully enclosed, is not secure, does not have necessary electrical power or water, is not climate controlled or heated, does not have edecated mercanines for work space and access to the Vessel, does not have beavy lift capability, and may not have suitable firefighting capability. Importantly, Building, electrical, plumbing, and mechanical normits have not been assed by the Bridgeport Building Department and a Certificate of Occupancy for the Cargo Container Structure has not been obtained.

We hereby notify you of the foregoing default and material breach and demand that each default or breach be cared, that full time work re-commence on the Vessel in a properly permitted building that conforms to best yacht building practices. These steps should be taken immediately, and in any event within the time, if any, permitted by the Contract, failing which Owner intends to take the necessary steps pursuant to Article 21 b) of the Contract to terminate the Contract.

Owner reserves all of its rights and remedies, none of which are waived.